INNOVATIVE PERSPECTIVES IN LANGUAGE EDUCATION:

TRENDS, CHALLENGES, AND APPROACHES

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ASSOC. PROF. DR. MEHMET VEYSİ BABAYİĞİT

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DR. SABİHA OLTULULAR
PROF. DR. HARUN TERZİ

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yayınevi

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Dr. Sabiha Oltulular, Prof. Dr. Harun Terzi

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Atlas of the Amphibians and Reptiles of Iğdır Province

Iğdır İlinin Kurbağa ve Sürüngen Atlası

Yazarlar:

Bahadır AKMAN
Mehmet Zülfü YILDIZ
Naşit İĞCİ

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Bahadır Akman, Mehmet Zülfü Yıldız, Naşit İğci

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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EĞİTİM YAYINEVİ GRUBU

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Mürüvvet Düzgün

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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EĞİTİM YAYINEVİ GRUBU

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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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PROF. DR. OSMAN ÇULHA
BÜŞRA MUTLU

EĞİTİM yayınevi

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Prof. Dr. Osman Çulha, Büşra Mutlu

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Editör hatları: +90 533 151 50 42, +90 507 151 50 43
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Yeni Trendler, Yeni Fırsatlar

DR. ÖĞR. ÜYESİ MÜRSEL KAYA

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Dr. Öğr.Üyesi Mürsel Kaya

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Dr. Bahar Balcı Aydoğan
Editör: Doç. Dr. Burak Türten

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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EDİTÖRLER:
PROF. DR. ZEKİYE HASBEK
DOÇ. DR. SEYİT AHMET ERTÜRK

EĞİTİM
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Prof. Dr. Zekiye Hasbek, Doç. Dr. Seyit Ahmet Ertürk

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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DİPLOMASİSİ

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TÜRKER ELİTAŞ, SAVAŞ KESKİN

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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EDITORS

Prof. Dr. Korkmaz BELLİTÜRK
Prof. Dr. Zubair ASLAM
Dr. Fatih BÜYÜKFİLİZ

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ÖRNEK ETKİNLİKLERLE

DR. ÖĞR. ÜYESİ TUĞBA PÜRSÜN
PROF. DR. AHMET KURNAZ

EĞİTİM
yayınevi

FONOLOJİK FARKINDALIK ÖRNEK ETKİNLİKLERLE

Dr. Öğr. Üyesi Tuğba Pürsün, Prof. Dr. Ahmet Kurnaz

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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P.O. Box 768/Armonk, New York, 10504-0768, United States of America
americaoffice@egitimyayinevi.com

Lojistik ve Sevkiyat Merkezi: Kitapmatik Lojistik ve Sevkiyat Merkezi, Fevzi Çakmak Mah. 10721 Sok. B Blok, No: 16/B, Safakent, Karatay, Konya, Türkiye
İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Fundamentals of Ship Physics

Mechanics, Hydrodynamics, and Propulsion

Vahit ÇALIŞIR, PhD

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impulse–momentum theorem quantifies collision forces, and the work–energy theorem connects drag to propulsive power (Campbell, 2025). The rotational analogue, $\sum \tau = I\alpha$, and the conservation of angular momentum explain why single-screw vessels heel under propeller torque reaction and why gyroscopic effects couple pitch and yaw in high-speed craft. At the most general level, the SNAME six-DOF formulation captures the coupled translational and rotational dynamics of a marine vehicle in a single compact equation, $\mathbf{M}_{RB}\dot{\boldsymbol{\nu}} + \mathbf{C}_{RB}\boldsymbol{\nu} = \boldsymbol{\tau}_{RB}$, from which all simpler models can be recovered as special cases (Al Makdah et al., 2019).

The collision mechanics developed in this chapter—from Newtonian impulse through the coefficient of restitution to closed-form collision energy loss expressions (Zhang, 1999)—quantify the enormous energies involved when ships collide. Energy methods, codified in the conservation law $\Delta E_{\text{mech}} = W_{\text{nc}}$, provide the bridge between the force-based and energy-based descriptions of ship performance, and the simple harmonic motion framework connects the same principles to the oscillatory behaviour of roll, pitch, and heave that dominates seakeeping (Russell et al., 2015).

Manoeuvring analysis extends these principles to curved motion. The classical rudder-force expression and the resulting heel angle during a turn demonstrate that course changes at speed carry direct stability implications (Attwood, 1899). The free-body-diagram approach and the pleometric index proposed by Fuss (2023) provide a modern, dimensionless framework for quantifying turn severity. Throughout, the same small set of mechanical principles—force balance, momentum conservation, energy conservation, rotational dynamics, and simple harmonic motion—reappears in contexts ranging from sail propulsion to collision energy absorption to ship rolling (Russell et al., 2015).

Two limitations apply. First, all drag and resistance expressions in this chapter assume calm water and steady flow; the modifications required for waves, currents, and unsteady motion are developed in Chapters 5 and 6. Second, the added-mass terms that appear in the manoeuvring equations (Equation 2.9) and the six-DOF formulation (Equation 2.15) are treated here as given coefficients; their physical origin in the acceleration of surrounding fluid is addressed in Chapter 5. With these caveats, the Newtonian mechanics of this chapter provides the foundation for the hydrodynamic, structural, and propulsive analyses that follow.

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partment flooding—extends the lost buoyancy method introduced here into the probabilistic framework presented in the *Maritime Safety and Risk Physics* chapter of the companion volume. Finally, the Bonjean-curve technique introduced for static conditions provides the starting point for evaluating hull girder loads in waves (see the *Structural Mechanics of Ships* chapter of the companion volume), where the instantaneous waterline varies along the ship's length.

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uncertainty (Attwood, 1899; United States Naval Academy, 2021). For the NACRA 17 foiling catamaran, the equilibrium condition $RM \geq HM$ takes a distinctive form: crew righting moment ($RM_{\text{crew}} = m_{\text{crew}} \cdot g \cdot d_{\text{crew}}$) is the primary stability contribution, and the depth-dependent lift of surface-piercing Z-foils provides passive pitch stabilisation (Huchet, 2021). The box-shaped approximation $GM_0 \approx B^2/(12T) - KG + T/2$ enables rapid preliminary assessment from principal dimensions alone, and the correct response to a vessel at her angle of loll—lowering the centre of gravity, never adding weight on the high side—follows directly from the physics of the wall-sided formula (Ridley & Patterson, 2014).

Modern stability regulation has moved from deterministic damage scenarios to physics-based probabilistic frameworks. The attained subdivision index A (Equations 4.22–4.23) integrates survivability over all feasible damage cases weighted by their probability of occurrence (Guedes Soares & Santos, 2015), and random-forest classifiers trained on damage stability calculations can now predict residual GZ curve parameters from damage descriptors, accelerating the probabilistic framework while retaining physical accuracy (Sutulo & Guedes Soares, 2023). The IMO weather criterion ($A_1 \geq A_2$) formalises dynamical stability as an energy balance under combined steady wind and gust conditions (Lee, 2019). The Second Generation Intact Stability Criteria extend this philosophy to five physics-based failure modes—pure loss of stability, parametric roll, surf-riding/broaching, dead ship condition, and excessive acceleration—using a three-level assessment (algebraic, probabilistic vulnerability, direct time-domain simulation) that mirrors the proportionality principle already established for damage stability (Spyrou et al., 2023). Together, these frameworks transform ship stability from a static metacentric calculation into a comprehensive, risk-informed discipline that links hull geometry, loading condition, and the seaway environment within a unified analytical structure.

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formulation $R_{\text{wind}} \propto C_r V_{\text{app}}^2 (A_T \cos^2\alpha + A_L \sin^2\alpha)$ (Rawson & Tupper, 2001) and the added resistance in waves complete the external force inventory for powering calculations in a seaway.

The Gothenburg 2000 CFD benchmark provides the quantitative standard against which computational resistance predictions are judged. The V&V framework decomposes simulation error into modelling and numerical contributions ($\delta_S = \delta_{SM} + \delta_{SN}$) and defines validation as $|E| < U_V = \sqrt{U_D^2 + U_{SN}^2}$ (Larsson et al., 2003). Across 20 RANS codes and three hull forms, the coefficient of variation in total resistance was approximately 5%, with numerical uncertainties of 2–6%. A particularly significant finding was that the form factor $(1 + k)$ increases by over 50% from model to full scale for a VLCC hull (0.247 $\rightarrow$ 0.378), contradicting the constant-form-factor assumption embedded in the standard ITTC extrapolation and suggesting that RANS-based full-scale simulations may ultimately provide more reliable powering predictions (Larsson et al., 2003). The extension of resistance physics to specialised environments—shallow water, where wave-making resistance doubles as $F_{nh} \rightarrow 1$, and polar waters, where ice-breaking constraints alter the optimal bow geometry—demonstrates that while the fundamental drag physics ($F \propto V^2$) is universal, optimal hull form is sensitive to the operating boundary conditions (Sutulo & Guedes Soares, 2023).

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order as forward loads (Hernández-Fontes et al., 2020). These theoretical and computational tools—from Froude's nineteenth-century rolling experiments through strip theory and fully nonlinear potential flow to RANS-based viscous simulations—collectively provide the quantitative basis for operability assessment, hull form optimisation, and weather routing in contemporary naval architecture (Molland, 2008; Rawson & Tupper, 2001).

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the vapour-compression cycle (Section 7.3.6) underpins refrigeration and HVAC systems essential to cargo integrity and crew habitability. The thermodynamic principles established here connect directly to the *Environmental Physics in Maritime Operations* chapter of the companion volume, where the efficiency of thermodynamic conversion determines the carbon intensity of shipping operations.

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
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FROM CHALK TO CLOUD:

Rethinking English Language Teaching in the Hyperconnected, Fast-Paced World of the 21st Century

DR. ŞENOL DENİZ

EDITOR: ASSOC. PROF. DR. PINAR AYYILDIZ

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ESENLİK TURİZMİ
KAPSAMINDA MANEVİ REFAH;

Dinler Arası Bir Karşılaştırma

İSMAİL UZER

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yayınevi

ESENLİK TURİZMİ KAPSAMINDA MANEVİ REFAH; DİNLER ARASI BİR KARŞILAŞTIRMA

İsmail Uzer

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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EDİTÖR
DOÇ. DR. SEMİH ÇAYAK

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yayınevi

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Editör hatları: +90 533 151 50 42, +90 507 151 50 43
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bilgi@kitapmatik.com.tr

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Whatsapp hattı: +90 501 651 92 85
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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bilgi@kitapmatik.com.tr

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MEHMET ANIL ÜNAL

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yayınevi

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Mehmet Anıl Ünal

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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bilgi@kitapmatik.com.tr

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Prof. Dr. Baykal Biçer

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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DENİZCİLİK İLETİŞİMİ VE İLETİŞİM MODELLERİ

Teoriden Pratiğe Kapsamlı Bir İnceleme

DR. ÖĞR. ÜYESİ VAHİT ÇALIŞIR

EĞİTİM
yayınevi

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Dr. Öğr. Üyesi Vahit Çalışır

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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+90 332 351 92 85, +90 533 151 50 42
bilgi@egitimyayinevi.com

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sevkiyat@egitimyayinevi.com
E-Ticaret: +90 553 950 50 37

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
+90 332 499 90 00
bilgi@egitimkitabevi.com

İnternet Satış: www.kitapmatik.com.tr
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Whatsapp hattı: +90 501 651 92 85
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Whatsapp hattı: +90 553 950 50 37
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bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Ülkü Sena DOĞAN
ORCID: 0009-0003-4595-3032

Doç. Dr. Tayfun TUTAK
ORCID: 0000-0002-0277-6377

EĞİTİM
yayınevi

DİJİTAL ÇAĞDA MATEMATİK VE GEOMETRİ EĞİTİMİ: SANAL GERÇEKLİK VE METAVERSE DENEYİMLERİ

Ülkü Sena Doğan, Doç. Dr. Tayfun Tutak

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Türkiye Ofis:
Konya: Eğitim Yayınevi Tic. Ltd. Şti., Fevzi Çakmak Mah. 10721 Sok. B Blok, No: 16/B, Safakent, Karatay, Konya, Türkiye
İstanbul: Salon Yayınları, Atakent mah. Yasemen sok. No: 4/B, Ümraniye, İstanbul, Türkiye
Santral: +90 332 351 92 85
Editör hatları: +90 533 151 50 42, +90 507 151 50 43
bilgi@egitimyayinevi.com

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Nadir Ateşoğlu

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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EĞİTİM YAYINEVİ GRUBU

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Deniz Şenyıldız

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
Sayfa Tasarımı: Kübra Konca Nam
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bilgi@kitapmatik.com.tr

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Whatsapp hattı: +90 501 651 92 85
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Whatsapp hattı: +90 501 651 92 85
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Kısaltmalar

ATS: Altayca-Türkçe Sözlük
AzTS: Azerbaycan Türkçesi'nden Türkiye Türkçesine Büyük Sözlük
BTH: Başqort Teleneŋ Hüzlege I-II "Başkurt Dilinin Sözlüğü"
DLT: Divanü Lûgat-it-Türk
DS: Türkiye'de Halk Ağzından Derleme Sözlüğü I-XII
EUTS: Eski Uygur Türkçesi Sözlüğü
HTS: Hakasça-Türkçe Sözlük
KB: Kutadgu Bilig
KE: Kısasü'l-Enbiya
KMTS: Karaçay-Malkar Türkçesi Sözlüğü
KS: Kırgız Sözlüğü
KTTS: Qazaq Tiliniŋ Tüsindirme Sözdigi "Kazak Dilinin Açıklamalı Sözlüğü"
Qutb.: Najstarsza wersja turecka husräw u Širin
ME: Mukaddimetü'l-Edeb
NF: Nehcü'l-Ferâdîs
TAS: Teleüt Ağzı Sözlüğü
TTAS: Tatar Teleneŋ Aŋlatmalı Sözlege "Tatar Dilinin Açıklamalı Sözlüğü"
TTS: Tuva Türkçesi Sözlüğü
Tuh.: Et-Tuhfetu'z-Zekiyye fi'l-Lugati't-Türkiyye
TüTS: Türkmence – Türkçe Sözlük
UTİL: Uzbek Tiliniŋ İzoxli Luğati "Özbek Dilinin Açıklamalı Sözlüğü"
YTS: Türkçe-Sahaca (Yakutça) Sözlük
YUTS: Yeni Uygur Türkçesi Sözlüğü

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Zangeneh Motlagh, M., Department of oral and maxillofacial Pathology, School of Dentistry, Tehran University of Medical Sciences, Tehran, Iran, Tamimi, A., Department of Regenerative Medicine, Cell Science Research Center, Royan Institute for Stem Cell Biology and Technology, ACECR, Tehran, Iran, Golroo, R., Department of Regenerative Medicine, Cell Science Research Center, Royan Institute for Stem Cell Biology and Technology, ACECR, Tehran, Iran, Hossein-Khannazer, N., Gastroenterology and Liver Diseases Research Center, Research Institute for Gastroenterology and Liver Diseases, Shahid Beheshti University of Medical Sciences, Tehran, Iran., Aminishakib, P., Department of Pathology, Cancer Institute Hospital, IKHC, Tehran University of Medical Sciences, Tehran, Iran., Mahdavi, N., Department of oral and maxillofacial Pathology, School of Dentistry, Tehran University of Medical Sciences, Tehran, Iran, Hassan, M., Experimental Cancer Medicine, Institution for Laboratory Medicine, Karolinska Institute, Stockholm, Sweden, Vosough, M., & Experimental Cancer Medicine, Institution for Laboratory Medicine, Karolinska Institute, Stockholm, Sweden. (2022). Oral squamous cell carcinoma, novel methods for early diagnosis and treatment. *Modern Medical Laboratory Journal*, *5*(1), 14-25. https://doi.org/10.30699/mmlj17.5.1.14

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Konya: Eğitim Yayınevi Tic. Ltd. Şti., Fevzi Çakmak Mah. 10721 Sok. B Blok, No: 16/B, Safakent, Karatay, Konya, Türkiye
+90 332 351 92 85, +90 533 151 50 42
bilgi@egitimyayinevi.com

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sevkiyat@egitimyayinevi.com
E-Ticaret: +90 553 950 50 37

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
+90 332 499 90 00
bilgi@egitimkitabevi.com

İnternet Satış: www.kitapmatik.com.tr
bilgi@kitapmatik.com.tr
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oluşturma gibi alanlarda kullanılan yapay zekâ destekli uygulamalar, çocukların anlatı sürecine daha aktif katılım göstermelerini sağlamakta ve yaratıcılıklarını teşvik etmektedir. ChatGPT, Google Gemini, Midjourney ve ElevenLabs gibi araçlar; çocukların yaşına ve ilgi alanlarına uygun özgün öykülerin oluşturulmasını, bu öykülerin sesli hâle getirilmesini ve etkileşimli biçimlerde sunulmasını mümkün kılmaktadır. Yapay zekâ, tek yönlü anlatı yapılarının ötesine geçerek çocuğun kararları doğrultusunda şekillenebilen dinamik kurguların ortaya konmasına olanak tanımaktadır. Bu sayede anlatı süreci hem zenginleşmekte hem de çocuğun anlatıyla olan bilişsel ve duygusal etkileşimi derinleşmektedir. Böylece yazınsal deneyim, kişiselleştirilmiş ve çok katmanlı bir öğrenme sürecine dönüşmektedir.

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Nasrettin Hoca ve Tavşan-Kaplumbağa Hikayeleri: Çocukların olay akışını hissetmelerini sağlamak, dikkatlerini çekmek ve okuma isteklerini artırmak için *Unity3D* ve *Vuforia SDK* kullanılarak yapılan AR projeleridir. Bu projeler 3D görseller ve ses kullanmaktadır. Yakınlaştırma, duraklatma ve bölümleri yeniden başlatma gibi işlevler için etkileşimli butonlarla her yaş grubu için kullanımı kolay hale getirilmiştir.

Sonuç olarak, AR teknolojisi, öğrenmeyi çocuklar için daha ilgi çekici, somut ve eğlenceli hale getirmek, çeşitli öğrenme stillerini desteklemek ve etkin katılımı teşvik etmek amacıyla çeşitli eğitim materyallerine giderek daha fazla dahil edilmektedir.

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çocuk edebiyatı ürünlerinin özel gereksinimli ve dezavantajlı çocukların gelişiminde olumlu sonuçlar doğurduğu bir gerçektir.

Dijital olanakların sağladığı en büyük yararlardan biri erişimin toplumun geneline ya da çok sayıda bireye yayılmasıdır. Özellikle sosyo ekonomik düzeyi düşük coğrafyalarda çeşitli girişimlerin (Örneğin, African Storybook) milyonlarca çocuğu kitapla buluşturması dijitalleşmenin üstün ayrıcalıklarındandır. Bunun dışında yerel dillere, azınlık dillerine yer verilmesi, özel gereksinimli bireylerin gereksinimlerinin hesaba katılması bu tür uygulamaların değerini daha da artırmaktadır.

Dijital çocuk edebiyatı yapıtları çocuğun kitabı tek başına tekrar tekrar, özerk ve yetişkin yardımı olmadan okumasına, özellikle engelli çocuğun kitapla kuracağı bağın bireyselleşmesine hizmet etmektedir. Bu yönden dijital çocuk edebiyatı yapıtlarının dezavantajlı gruplar ve engelli bireyler için önemini ortaya koyacak bilgilerin kamuoyuyla paylaşılması gerekmektedir.

Dijital çocuk edebiyatı yapıtları, çocuk okurun metinle etkileşim kurmasına olanak sağlayarak, özellikle engelli ve dezavantajlı gruplardaki çocuklar için kişiselleştirilmiş okuma deneyimlerini desteklemektedir. Bu bağlamda yapay zekâ, metinleri anında farklı dillere çevirme, görme ve işitme engellerine uygun formatlara dönüştürme, okuma güçlüğü yaşayan bireylere uyarlanmış içerikler geliştirme gibi işlevleriyle kapsayıcı eğitimi güçlendirmede ve öğrenme engellerini en aza indirmede önemli bir araç olarak öne çıkmaktadır. Böylece yapay zekâ ile desteklenen dijital öyküler, salt teknolojik anlatılardan çıkarak, her çocuğun ihtiyaçları, yetenekleri ve kimliği doğrultusunda erişebileceği kapsayıcı öğrenme ortamlarına dönüşebilmektedir.

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seçme özgürlüğünün Türkçe öğretmenlerine bırakılması önerilmektedir.

ChatGPT-4o, 5. sınıflar için tasarladığı etkinliklerde çoğunlukla eleştirel düşünme ile anlatma becerilerini ilişkilendirmiştir. Bu durumun üstesinden gelmek için prompt (istem) yazılırken temel dil becerilerinin her biri ayrı vurgulanmalıdır.

ChatGPT-4o hazırladığı bir diğer etkinlikte ise 5. sınıflardan makale yazmalarını istemektedir. Ancak 2024 Ortaokul Türkçe Dersi Öğretim Programı'na göre öğrenciler makale türü ile 8. sınıfta tanışmaktadırlar. ChatGPT-4o'nun bu metin türünde 5. sınıf öğrencilerinden yazı üretmelerini istemesi 2024 Ortaokul Türkçe Dersi Öğretim Programı'nı hafızasına almadığını göstermektedir. Ancak Türkçe Dersi Öğretim programı yapay zekâ aracına yüklense dâhi bu tip hatalar yapma ihtimali vardır. Bu yüzden yapay zekânın öğrenciler için hazırladığı etkinlikler Türkçe öğretmeni tarafından kontrol edilmeden öğrencilere uygulanmaması gerekir. Aynı zamanda bu durum yapay zekânın bilişsel yetkinliğinin bir öğretmenin yerini alamayacak nitelikte olduğunun göstergesidir.

ChatGPT-4o'nun 8. sınıf öğrencileri için geliştirdiği etkinlikler daha üst seviyededir. Bu bakımdan yapay zekânın öğrencilerin seviyelerine yönelik ayrım yapabildiği söylenebilir. Örneğin 8. sınıflar için önerilen karakter analizi etkinliğinde 5. sınıflar için hazırlanana göre daha fazla derinlemesine sorular bulunmaktadır. Her iki düzey için hazırlanan etkinliklerde eğitim öğretim sürecinin ayrılmaz bir parçası olan değerlendirme boyutu göz ardı edilmemiştir.

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ancak sağlanabilir, çocukların dijital dünyanın oluşturduğu risklerden korunması için başka bir seçenek yoktur. Çocuğun dijital haklarının odakta olduğu dizgeler, düzenekler ve politikalar geliştirmek, bunların yaygınlaştırmak ve dijital güvenliği toplumun ortak erdemlerinden birine dönüştürmek günümüz çocuklarını çevrim içi çekincelere karşı koruma altına almanın yanı sıra gelecek kuşakların etik duyarlılığı yüksek, demokratik, eşitlikçi ve kapsayıcı bir toplum olmasının da önünü açar.

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ASST. PROF. DR. DUYGU BAYSAL KURT
ASSOC. PROF. DR. ŞADUMAN YILDIZ

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Author
Ali Torabi, MD, PhD

Nadir Koçak, MD
Supervisory Editor

Selin Torabi, MA
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- Principal component analysis (PCA): PCA of probe-level data across batches can reveal systematic batch-dependent clustering that should be addressed before clinical reporting.
- Re-normalization: If batch effects are identified, consider re-normalizing affected samples against an appropriate reference set from the same batch.

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CNV Size Category	Predominant Mechanism(s)	Recurrent?	Recurrence Risk	Detection Method
100 kb – 5 Mb	NAHR (most common), NHEJ, FoSTeS	Often (if NAHR)	1–2% (NAHR); <1% (non-NAHR)	Standard clinical CMA
5–50 Mb	NAHR, unbalanced translocation, NHEJ	Variable	Variable; low if de novo	CMA, karyotype
>50 Mb / whole chr	Non-disjunction, trisomy rescue	N/A	1–2% (non-disjunction); maternal age-dependent	CMA, karyotype

Table 7.2. *Size-dependent summary of CNV mechanisms, recurrence patterns, and detection methods. Recurrence risk estimates are approximate population averages.*

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retrotranspositional activity: LINE-1, Alu, and SVA. Estimated insertion rates are approximately 1 new L1 insertion per 100–200 births, 1 new Alu insertion per 20 births, and 1 new SVA insertion per 900 births. Collectively, this means that approximately 1 in 15–20 live births carries a de novo retrotransposon insertion. While the majority of new insertions land in non-functional genomic regions and are phenotypically silent, a fraction (~0.1%) insert into or near genes and can cause disease. Over 120 disease-causing retrotransposon insertions have been documented to date.

9.6 Segmental Duplication Evolution

9.6.1 The Hominid-Specific Burst of Segmental Duplications

Comparative genomic analysis reveals that the human genome experienced a burst of segmental duplication accumulation specific to the hominid lineage. Approximately 5% of the human genome consists of segmental duplications >1 kb with >90% identity, compared to approximately 2–3% in other mammals. This hominid-specific expansion occurred primarily within the last 10–15 million years and was concentrated in pericentromeric regions and on specific chromosomes (particularly chromosomes 1, 7, 15, 16, 17, and 22). These same chromosomes are the ones most frequently affected by recurrent microdeletion/microduplication syndromes in clinical genetics — a direct consequence of their SD-rich architecture predisposing to NAHR (Eichler, Trends Genet, 2001).

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20.4 Laboratory Accreditation and Quality Standards for Somatic CMA

Somatic microarray analysis must be performed in a laboratory meeting appropriate accreditation standards for clinical genomic testing. Key quality requirements include:

- CAP/CLIA accreditation (USA) or ISO 15189 accreditation (international): Mandatory for clinical somatic genomic testing.
- Tumor content documentation: The report must state the estimated tumor cellularity and the minimum detectable allele frequency at that cellularity.
- Somatic vs. constitutional variant annotation: The report must clearly distinguish somatic findings from constitutional (germline) variants, which may be detected in the background normal cells.
- Pathologist co-signature: In many jurisdictions and accreditation frameworks, clinical somatic genomic reports require co-signature by a board-certified pathologist.
- Reporting format: Somatic CMA reports typically follow ISCN 2020 nomenclature for chromosomal findings and include clinical interpretation, prognosis implications, and therapeutic relevance where applicable.

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Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

KAYNAKLAR:

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Görüldüğü gibi matematiksel olarak elde edilen oran ile bazı canlıların kemiklerinin incelenmesi ve yapılan gözlemler ile elde edilen sonuçlar oldukça uyumludur. Dolayısıyla bunlar kör bir tesadüfün ürünü olabilir mi?

Kuran-ı Kerim'de de kemikler ile ilgili ayetler mevcuttur. Örneğin Bakara Suresi'nde

"... Şimdi sen kemiklere bak, onları nasıl düzenliyor, sonra ona nasıl et giydiriyoruz... (Bakara Suresi, 259)" buyrulmaktadır.

Sonuç

Bu çalışmada kemik-ilik oranının matematiksel olarak incelenmesiyle, dayanıklılığı artırırken malzeme kullanımını azaltan en uygun iç boşluk oranının yaklaşık $\kappa \simeq 0{,}62$ olduğu gösterilmiştir. Çeşitli canlıların kemiklerinden elde edilen ölçümler bu teorik sonuçla uyumlu olup, doğadaki yapıların optimalite ilkelerine göre şekillendiğini desteklemektedir. Böylece canlıların kemik yapılarının rastlantısal olmadığı; aksine, en az maddeyle en fazla dayanıklılığı sağlayan fiziksel ve matematiksel prensiplerle uyumlu biçimde düzenlendiği anlaşılmaktadır. Bu durum, doğadaki mimarinin ardında yatan ölçü, denge ve düzen fikrini güçlendirmekte hem biyolojik hem de matematiksel açıdan dikkat çekici bir uyum sergilemektedir.

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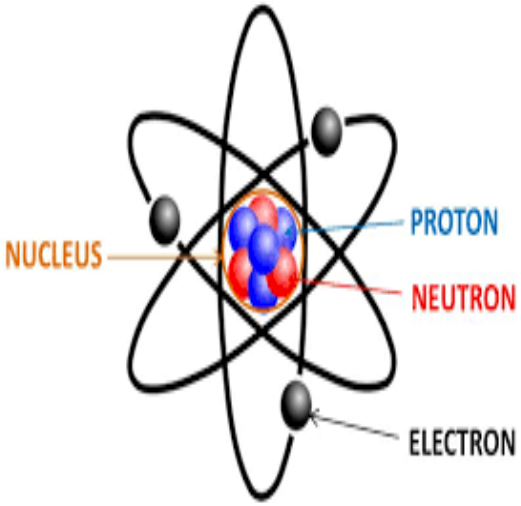
SONUÇ

Kâinata matematik gözüyle bakıldığında, görülen simetrik ve estetik düzen, o kadar ince ve anlamlı yaratılmıştır ki, bu mucize ve harika yaratılışın kör tesadüfe, akılsız, şuursuz sebeplere ve tabiata verilmesi imkânsızdır.

Bu, gözle görülen hassas ve harika düzen, akıl sahiplerine Allah'ın birliğini ve her şeyi sonsuz ilim, irade, kudret ve hikmetle yarattığını ispat etmektedir.



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sistemi geliştirdi, sonra milyonlarca yıl içerisinde boşaltım sistemi geliştirdi. Azıcık biyoloji bilen herkes bu iddiaya sadece güler. Çünkü sindirim yapıp boşaltamamak ölmek demektir. Aynı şekilde biyokimyasal reaksiyonlar yapıp, tampon sisteme sahip olmamak demek, biyokimyanın çökmesi demektir.

Bu biyokimyasal gerçeklikler, canlılardaki asit–baz homeostazının rastlantısal mutasyonlar ve doğal seçilim yoluyla aşamalı olarak ortaya çıktığı yönündeki evrimsel açıklamaları bilimsel açıdan yetersiz kılmaktadır. Çünkü burada gözlenen yapı, bağımsız parçaların zamanla bir araya gelmesinden ziyade, eşzamanlı komplekslik ve ince ayar sergileyen, amaçlı ve ölçülü bir bütünlüğe işaret etmektedir. Nitekim Kur'an'da "Şüphesiz Biz her şeyi bir ölçü ile yarattık" (Kamer, 49) buyurulmakta; canlı sistemlerde gözlenen bu hassas denge, söz konusu ilkenin biyokimyasal düzeydeki somut bir yansıması olarak karşımıza çıkmaktadır. Dolayısıyla tampon sistemler ve homeostatik denge, canlılığın kör ve yönsüz süreçlerin değil; düzen, ölçü ve hikmet sahibi bir Yaratıcı'nın eseri olduğunu gösteren güçlü bilimsel deliller arasında yer almaktadır.

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Editör hatları: +90 533 151 50 42, +90 507 151 50 43
bilgi@egitimyayinevi.com

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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İsmail Küçükaslan

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Ocean Environment, Structures, and Safety

Vahit ÇALIŞIR, PhD

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of Zheng et al. (2022), and the wind-wave generation theory of Pierini (2025) together demonstrate that the wave environment confronting ships and offshore structures is shaped by processes spanning time scales from fractions of a second (capillary waves) to hours (tidal oscillations and seiches) and spatial scales from centimetres to ocean basins. The extreme value methods of Guedes Soares and Santos (2015) close the chain from physics to engineering practice by providing the statistical tools needed to estimate design wave heights for return periods of 50–100 years. These wave mechanics foundations underpin the ship motions and seakeeping analysis presented in the *Ship Motions and Seakeeping* chapter of the companion volume and the structural loading calculations of Chapter 5.

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face, with less than 2% reflected at high sun angles rising to total reflection at grazing incidence (Dera, 1992). Below the surface, underwater irradiance follows exponential decay (Equation 2.13), governed by the diffuse attenuation coefficient K_d whose magnitude varies across the Jerlov classification from $\sim 0.017\ \mathrm{m}^{-1}$ (Type I, euphotic depth $\sim 140\ \mathrm{m}$) to $\sim 0.35\ \mathrm{m}^{-1}$ (Coastal 5, $\sim 10\ \mathrm{m}$) (Dera, 1992). The Gershun equation (Equation 2.14) provides the fundamental connection between the divergence of the irradiance vector and the absorption coefficient, enabling in situ determination of inherent optical properties from irradiance measurements.

The electromagnetic foundations—Coulomb's law (Equation 2.1), the magnetic force on moving charges (Equation 2.2), the Biot–Savart law (Equation 2.3), and Faraday's law of induction (Equation 2.4)—govern radar, GNSS, radio communications, shipboard power generation, and compass correction systems (Campbell, 2025; Griffiths, 2013). The magnetic compass exploits the torque $\vec{\tau} = \vec{m} \times \vec{B}$ (Equation 2.10) to align with the Earth's horizontal field, while deviation arising from the ship's ferromagnetic structure must be compensated by careful adjustment. The contrast between the ocean's extreme transparency to acoustic waves and the rapid attenuation of electromagnetic radiation—the SOFAR channel spans thousands of kilometres while the photic zone extends at most $140\ \mathrm{m}$—defines the fundamental operating envelopes for underwater sensing and communication, a theme developed further in Chapter 6.

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3.6 Conclusion

The Coriolis acceleration $\mathbf{a}_C = 2\boldsymbol{\omega} \times \mathbf{v}$ (Equation 3.4) is the unifying mechanism of atmospheric and oceanic dynamics, deflecting winds, organising global circulation cells, and governing the geostrophic wind $V_g = (1/\rho f)(\Delta p/\Delta n)$ (Equation 3.6) that blows parallel to the isobars (Cornish & Ives, 2009; Dera, 1992). The vertical thermal structure of the atmosphere, characterised by the dry adiabatic lapse rate $\Gamma_d = g/c_p \approx 9.8\,^\circ\mathrm{C\,km^{-1}}$ (Equation 3.1) and the lower saturated rate ($4\,^\circ\mathrm{C\,km^{-1}}$ to $7\,^\circ\mathrm{C\,km^{-1}}$), determines atmospheric stability and thereby controls whether convective clouds, frontal precipitation, or clear skies prevail (Cornish & Ives, 2009). The three-cell model—Hadley, Ferrel, and Polar—explains the trade winds, westerlies, and polar easterlies, while the ITCZ migrates seasonally with the sun, producing the calm doldrums and squally thunderstorms of the tropics.

For mariners, the most operationally critical systems are the extratropical cyclone life cycle (warm front, cold front, occlusion), the tropical cyclone with its dangerous semicircle where translational and rotational winds add, and the fog types—advection, radiation, and frontal—that reduce visibility below 1000 m (Cornish & Ives, 2009). Tropical cyclones require sea surface temperatures exceeding $26.5\,^\circ$C and sufficient Coriolis deflection (latitude above $\sim 5^\circ$); Buys Ballot's law provides the operational rule for locating storm centres and identifying the dangerous semicircle. The Beaufort scale condenses the physics of wind–wave interaction into an observational framework from Force 0 (calm) to Force 12 (hurricane), enabling visual estimation of conditions at sea. At the air–sea interface, the continuous exchange of shortwave radiation, longwave emission, and latent and sensible heat fluxes couples the ocean thermal structure to atmospheric circulation, with sea surface temperature as the controlling variable (Dera, 1992).

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method (Dera, 1992). The Brunt–Väisälä frequency $N^2 = -(g/\rho)\,\mathrm{d}\rho/\mathrm{d}z$ (Equation 4.6) measures the vertical stability of the water column, while the three-layer vertical structure—mixed layer, thermocline, and deep ocean—is maintained by the competition between wind-driven turbulent mixing and the thermocline-scale Rayleigh-number balance (Equation 4.19) (Dera, 1992; Stern, 1975). The thermohaline instability criterion (Equation 4.17) demonstrates that a statically stable column can be convectively unstable when $\beta S_z/\kappa_S > \alpha T_z/\kappa_T$, producing salt fingers of centimetre-scale width (Equation 4.18) that drive the slow vertical mixing on decadal timescales (Stern, 1975).

Wind-driven circulation rests on the Ekman–Sverdrup framework: the Ekman spiral (Equations 4.12–4.13) describes the rotation and exponential decay of current with depth within a boundary layer of thickness $\delta_E = \sqrt{2A_v/f}$ (Equation 4.14), and the depth-integrated Ekman transport is directed 90° to the right of the wind in the Northern Hemisphere (Equation 4.15) (Apel, 1988). The Sverdrup relation $M_y = (1/\beta)(\nabla \times \boldsymbol{\tau})_z$ (Equation 4.16) establishes that interior meridional transport is determined entirely by the wind stress curl, with the return flow concentrated in intense western boundary currents (Gulf Stream, Kuroshio) required by vorticity balance (Apel, 1988; Stern, 1975). Tidal dynamics add a periodic forcing described by the tide-generating potential (Equation 4.21), whose expansion into hundreds of constituents (Equation 4.22) produces the observed amphidromic systems and the spring–neap modulation governed by the dominant M_2 and S_2 harmonics (Apel, 1988). The geostrophic balance (Equations 4.23–4.24) relates sea surface slope to current velocity, while operational consequences—fresh water allowance, under-keel clearance, and the ice formation sequence from frazil through multi-year pack (Cornish & Ives, 2009)—translate the underlying physics into direct maritime significance.

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Tupper, 2001). Hooke's law ($\sigma = Y\varepsilon$), extended through the buckling formulae of Euler (Equation 5.14) and Bryan (Equation 5.15), governs the slenderness limits of compressed plating, while the Johnson–Ostenfeld correction bridges the elastic and inelastic buckling regimes (Campbell, 2025; Rawson & Tupper, 2001).

Local and dynamic loading phenomena complete the structural picture. Shipping water events impose quasi-static vertical deck loads that scale with bore steepness ($F^* \approx 0.08$–0.53), and the backflow phase generates loads 64–86% as large as the forward impact, demanding consideration in design (Hernández-Fontes et al., 2020). Fatigue, assessed through the S–N relation (Equation 5.16) and the Palmgren–Miner accumulation rule (Equation 5.17), is the life-limiting failure mode for welded connections in the splash zone: spectral and time-domain analyses for a Panamax container vessel both predicted fatigue lives of only 6.7–7.1 years, well below the 20-year design target, with moderate-to-severe sea states contributing 80% of the total damage despite less than 20% of the operational exposure (Li et al., 2013). The torsion equation $T/J = \tau/r = G\theta/l$ sizes the propeller shaft, and coupled lateral–torsional shaft dynamics can amplify aft-body vibration when blade-rate excitation coincides with structural resonances (Russell et al., 2015; Sutulo & Guedes Soares, 2023).

The probabilistic framework of structural reliability introduces the reliability index $\beta = \Phi^{-1}(1 - P_f)$ (Equation 5.25) and the redundancy indices RI_1 and RI_2 (Equations 5.26–5.27) as unified measures of safety and damage tolerance. Corrosion wastage, modelled by the power law $r(t) = C_1(t - T_c)^{C_2}$ (Equation 5.22), drives a monotonic decline in hull girder capacity—from $\beta \approx 5.3$ at new-build to $\beta \approx 3.1$ after 25 years for the case study vessel—demonstrating that static safety factors alone cannot guarantee adequate safety over the vessel's lifetime (Decò et al., 2012). Longitudinal framing, adopted in large tankers and bulk carriers, increases the critical buckling stress by reducing unsupported panel widths in the direction of dominant compression, a principle validated by section modulus measurement and the bending stress formula (United States Naval Academy, 2021).

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tion 6.6) and Wilson's empirical formula (Equation 6.7) yield typical ocean values of 1430–$1580\,\mathrm{m\,s^{-1}}$, with temperature the dominant variable ($+3.5\,\mathrm{m\,s^{-1}}$ per °C) (Dera, 1992). The resulting vertical sound speed profile—decreasing through the thermocline and increasing under hydrostatic pressure—creates the SOFAR channel at approximately 400–$1200\,\mathrm{m}$ depth, where continuous refraction traps acoustic energy and enables propagation over thousands of kilometres (Urick, 1983). The enormous acoustic impedance mismatch at the air–sea interface ($Z_{\text{sea}}/Z_{\text{air}} \approx 3700$, Equation 6.9) effectively confines underwater sound to the ocean.

Transmission loss combines geometric spreading—spherical divergence yields -6 dB per doubling of distance—with frequency-dependent absorption arising from three chemical relaxation processes: boric acid ($f_r \sim 1\,\mathrm{kHz}$), magnesium sulphate ($f_r \sim 100\,\mathrm{kHz}$), and viscous losses at higher frequencies (Equations 6.16 and 6.17) (Campbell, 2025; Dera, 1992). The Doppler effect (Equation 6.18) underpins the Acoustic Doppler Current Profiler (ADCP), in which the fractional frequency shift of backscattered signals yields current velocity profiles throughout the water column (Campbell, 2025).

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between cognitive failures and the physical consequences of collision kinetic energy—amplified 10–40% by hydrodynamic added mass—and bottom raking structural response (Guedes Soares & Santos, 2015; Rawson & Tupper, 2001). Ship manoeuvrability standards (advance, tactical diameter, stopping distance) translate the hydrodynamic derivatives of the equations of motion into quantitative collision-avoidance and man-overboard recovery criteria (Sutulo & Guedes Soares, 2023; United States Naval Academy, 2021).

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Sections 8.4.2 and 8.4.5 address the fuel carbon intensity. The life cycle impact assessment framework (Equation 8.5) provides the analytical tool for comparing these options on a consistent well-to-wake basis.

The environmental trade-offs are complex: scrubbers (Section 8.4.1) solve the air quality problem but transfer pollutants to the water; LNG eliminates SO_x but introduces methane slip risk; antifouling coatings (Section 8.4.4) reduce resistance and emissions but may release biocides to the marine environment. The optimization of these trade-offs requires the quantitative physics-based analysis developed throughout this chapter, underpinned by the fundamental oceanographic properties—optical, acoustic, and thermodynamic—of the marine environment (Clark, 2001; Dera, 1992; Guedes Soares & Santos, 2015).

8.6 Conclusion

The environmental physics of maritime operations links the fundamental properties of seawater—density, optical absorption and scattering, acoustic propagation—to the assessment of anthropogenic impacts. Suspended particles in seawater follow the Junge distribution $N_c(D) = k\,D^{-m}$ (Equation 8.2), with the concentration coefficient k spanning orders of magnitude between open ocean ($\sim 10^4$) and coastal/harbour waters ($\sim 10^7$–10^8) (Dera, 1992). This particle population governs the optical clarity of the water column: anthropogenic inputs from dredging, ballast water discharge, and land-based runoff alter the natural size distribution, raising the attenuation coefficient and reducing the euphotic zone depth with direct consequences for ecosystem productivity (Clark, 2001). The bottom-up trip emission framework (Equation 8.1) quantifies operational emissions from fuel consumption and engine-specific emission factors, while the life cycle impact assessment (Equation 8.5) extends the analysis across the vessel's full cradle-to-grave trajectory, with the operational phase dominating all impact categories at $>$94% of the total (Guedes Soares & Santos, 2015). The regression-based link between hull block coefficient C_B (Equation 8.3) and annual emissions enables environmental performance to be considered as early as the pre-design stage, bridging hull form hydrodynamics (see the *Fluid Dynamics and Ship Resistance* chapter of the companion volume) and environmental regulation (Guedes Soares & Santos, 2015; Papanikolaou, 2014).

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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Kitap

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Editör: **Dr. Öğr. Üyesi Yavuz Selim Kaya**

Arkeoloji

Alanında Uluslararası Araştırmalar-III

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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DOÇ. DR. MEHMET BARIŞ YILMAZ

EĞİTİM
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Doç. Dr. Mehmet Barış Yılmaz

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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ANKARA'DA ESNAF LOKANTALARIN GASTRONOMİ MİRASI

EMRE ÖZKAN
DOÇ. DR. İLKAY YILMAZ

EĞİTİM
yayınevi

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Emre Özkan, Doç. Dr. İlkay Yılmaz

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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BİLİMSEL AĞLARIN İZİNDE

DR. NURGÜL ERDAL

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yayınevi

AİLE İŞLETMELERİ YÖNETİMİNDE YENİ UFUKLAR: BİLİMSEL AĞLARIN İZİNDE

Dr. Nurgül Erdal

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Sözlü Kaynaklar

KK-1: K1, Erkek, 46, Evli, 3 çocuk, Zonguldak, Düzensiz işlerde çalışan Roman erkek, 01.12.2025.

KK-2: K2, Erkek, 28, Bekâr, Zonguldak, Düzenli işi olan Roman erkek, 03.12.2025.

KK-3: K3, Erkek, 39, Evli, 2 çocuk, Zonguldak, Mevsimlik/güvencesiz işlerde çalışan Roman erkek, 09.12.2025.

KK-4: K4, Erkek, 55, Evli, 4 çocuk, Zonguldak, Emekli Roman erkek, 15.12.2025.

KK-5: K5, Erkek, 33, Evli, 1 çocuk, Zonguldak, Güvencesiz/düzensiz işlerde çalışan Roman erkek, 15.12.2025.

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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EĞİTİM yayınevi

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 501 651 92 85
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Whatsapp hattı: +90 501 651 92 85
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Tufan Öztürk

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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SANAL GERÇEKLİK DESTEKLİ

İŞ SAĞLIĞI VE GÜVENLİĞİ EĞİTİMLERİ, DEPREM UYGULAMALARI VE ÇALIŞAN MOTİVASYONU

DR. YAKUP TARCAN

EDİTÖR: PROF. DR. ÜMİT UZMAN

EĞİTİM yayınevi

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Dr. Yakup Tarcan

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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4. Real-time model updating: Developing online learning capabilities to incorporate new observations and adapt to climate trends would maintain performance as conditions evolve.

5. Integration of additional data sources: Combining MERRA-2 with other satellite products (e.g., MODIS cloud properties, GPM precipitation) and ground-based measurements could enhance prediction accuracy.

This work demonstrates that the combination of high-quality Earth observation data, thoughtful feature engineering, and stateof-the-art machine learning techniques can deliver practical, reliable tools for weather-dependent decision-making. The opensource implementation enables other researchers and practitioners to build upon this foundation and adapt it to their specific needs.

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6.2. Yükselen Teknolojiler ve Gelecek Araştırma Yönelimleri

Gelecekteki araştırmaların, büyük verinin zorluklarını aşmak için mevcut teknolojileri geliştirmeye ve yeni paradigmalar oluşturmaya odaklanması gerekiyor [24].

Ölçeklenebilir Gizlilik ve Güvenlik Çözümleri: Büyük verinin ölçeği, güvenlik ve gizlilik modellerinin, özellikle MapReduce gibi dağıtık çerçeveleri kullanarak optimize edilmesini gerektiriyor. Gerçek zamanlı yüksek hızlı veri işleme ihtiyacına yanıt verecek, kaynak tüketimini dengeleyen çözümler geliştirilmelidir [25].

Yapay Zekâ ve Makine Öğrenimi Entegrasyonu: Makine öğrenimi (ML) ve derin öğrenme (DL), büyük veri analitiği için hayati öneme sahiptir. Gelecekteki çalışmalar, karmaşık, dengesiz ve heterojen veri kümeleriyle başa çıkmak için (örneğin DL'yi büyük veri analitiğine entegre etmek veya boyut azaltma tekniklerini geliştirmek) optimize edilmiş, özel ML modelleri oluşturmaya odaklanmalıdır [25].

Kuantum Bilişim Etkisi: Kuantum bilişim, mevcut şifreleme şemalarının güvenliğini potansiyel olarak tehdit edebileceğinden, post-kuantum kriptografi alanındaki çalışmalar, büyük veri güvenliğini geleceğe taşımak için kritik hale gelecektir [26].

Blockchain Uygulamaları: Blockchain'in merkezi olmayan doğası, büyük veri ortamlarında veri denetimi (audit) ve değişmezlik (immutability) sağlayarak güvenliği artırma potansiyeline sahiptir [26].

Etik ve Şeffaflık: Yapay zekâ kararlarının açıklanabilirliği (Explainable AI - XAI) ve etik veri uygulamaları, özellikle akıllı şehirler ve telekomünikasyon gibi hassas sektörlerdeki gelecekteki araştırma eğilimlerindendir [27].

7. Sonuç

Büyük veri, sunduğu analitik ve öngörü yetenekleri sayesinde günümüzün en değerli kaynağıdır. Geleneksel güvenlik yaklaşımları, verinin hacmi, hızı ve çeşitliliği karşısında yetersiz kalırken, Homomorfik Şifreleme, Diferansiyel Gizlilik ve gelişmiş anonimleştirme teknikleri, bu yeni tehditlere karşı umut verici çözümler sunmaktadır [27].

Bu alandaki ilerleme, büyük veri sistemlerinin (özellikle Hadoop) kendisinin güvenlik mimarisine dahil edilen, ölçeklenebilir, dinamik ve hibrit koruma mekanizmalarının geliştirilmesine bağlıdır. Gelecekteki çalışmaların, özellikle gizlilik ve veri faydası arasındaki hassas dengeyi gözeterek, makine öğrenimi ve kuantum bilişimi gibi teknolojileri büyük veri güvenliğine entegre etmeye odaklanması gerekmektedir [28].

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4.0'ın etkin biçimde uygulandığı tesislerde makineler, kestirimci bakım için gerekli veriyi üreten bütünleşik bir ağ yapısı oluşturmakta ve ortak çalışabilirlik sağlamaktadır. Bu bağlamda kestirimci bakımın temel unsurları olan bulut bilişim, endüstriyel büyük veri ve akıllı fabrika konseptleri hızla yaygınlaşmakta; fabrikaların veri depolama, işleme ve analiz altyapılarına erişimi kolaylaşarak kestirimci bakımın uygulanabilirliği önemli ölçüde artmaktadır.

Kestirimci bakım uygulamaları, geçmiş verilerden yararlanarak ekipmanların gelecekteki durumunu tahmin etmeyi mümkün kılar. Bu nedenle geçmiş verinin doğruluğu, bütünlüğü ve güvenilirliği tahmin modellerinin başarı düzeyini belirleyen en kritik unsurlardır. Etkin bir kestirimci bakım sistemi için ilk adım, doğru amaçların ve uygun veri noktalarının belirlenmesidir. Doğru sensörlerin entegrasyonu, makineden gerçek zamanlı ve yüksek kalitede veri toplanmasını sağlayarak arıza davranışlarının daha sağlıklı izlenmesine katkıda bulunur. Veri hazırlama süreçleri ve veri kalitesi, tüm tahmine dayalı modeller için temel girdilerdir; veri kalitesi arttıkça model performansı ve tahmin doğruluğu da yükselir. Bu durum, kestirimci bakım stratejisinin başarısını güçlendirerek işletmelerin varlıklarını sürdürülebilir ve rekabetçi bir şekilde yönetmesine olanak tanır.

Sonuç olarak kestirimci bakım, statik bir hedef değil; sürekli iyileştirme gerektiren dinamik bir süreç olup işletmenin olgunluk düzeyi arttıkça geliştirilmesi gereken bir yolculuk olarak değerlendirilmelidir.

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durumunda paralel akışlı duruma göre daha yüksek performans sergilemiştir.

- Gövde borulu ısı değiştiricinin sıcaklığa olan duyarlılığı diğer 2 tip ısı değiştiriciden daha fazla olmuştur. Yani besleme suyu sıcaklığının artışı gövde borulu ısı değiştiricide diğer ısı değiştirici tiplerinden daha etkin performans artışı olmuştur.
- Gövde borulu ısı değiştirici de karşıt akışlı durum paralel akışlı duruma ortalama olarak %3.87 kadar daha iyi güç yoğunluğu sağlamıştır.
- Çift borulu ısı değiştirici de karşıt akışlı durum paralel akışlı duruma ortalama olarak %3.89 kadar daha iyi güç yoğunluğu sağlamıştır.
- Plakalı ısı değiştirici de karşıt akışlı durum paralel akışlı duruma ortalama olarak %11.53 kadar daha iyi güç yoğunluğu sağlamıştır.
- Akış yönünün etkisi en fazla plakalı ısı değiştiricinin güç yoğunluğunu etkilemiştir. Çift borulu ve gövde borulu tip ısı değiştiricilerin güç yoğunluğunu ise yaklaşık olarak aynı düzeyde etkilemiştir. Buradan akış yönünün farklı tip ısı değiştiricilerde farklı etkilere sebep olduğu sonucuna varılmıştır.
- Karşıt akışlı durumda gövde borulu ısı değiştirici çift borulu tip ısı değiştiriciye göre ortalama olarak % 19.06 daha iyi güç yoğunluğu değeri sağlarken, plakalı tip ısı değiştirici çift borulu tip ısı değiştiriciye göre ortalama olarak % 9.09 daha iyi güç yoğunluğu değeri sağlamıştır.
- Paralel akışlı durumda gövde borulu ısı değiştirici çift borulu tip ısı değiştiriciye göre ortalama olarak % 18.08 daha iyi güç yoğunluğu değeri sağlarken, plakalı tip ısı değiştirici çift borulu tip ısı değiştiriciye göre ortalama olarak % 1.61 daha iyi güç yoğunluğu değeri sağlamıştır.
- Kıyaslanan ısı değiştirici tiplerinden birim alan için en yüksek performanslı olandan en düşük performanslı olana doğru sırasıyla; gövde borulu ısı değiştirici, plakalı ısı değiştirici ve çift borulu ısı değiştirici olduğu tespit edilmiştir.

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Optimal pozlama ayarlarının seçilmesiyle daha net ve kontrastlı görüntüler elde edilmiş, bu da ortofoto ve sayısal model üretiminde hata oranlarını azaltmıştır. Çalışma, özellikle amatör kullanıcılar ve yeni başlayanlar için önemli teknik öneriler sunmaktadır. Farklı uçuş yükseklikleri ve pozlama ayarlarının görüntü kalitesine etkisi incelenmiştir.[50]

8.SONUÇ

İHA teknolojileri, gelişmiş sensörler ve analiz algoritmaları ile birleştirildiğinde, pek çok sektörde karar verme süreçlerini hızlandırmakta, maliyetleri azaltmakta ve insan güvenliğini artırmaktadır. Bu çalışma kapsamında özetlenen 50 başlık, İHA'ların çok disiplinli kullanım potansiyelini gözler önüne sermektedir. Her bir uygulama, belirli bir probleme yenilikçi bir çözüm sunarken, akademik ve sektörel düzeyde gelişimin önünü açmaktadır.

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Bu çalışmada, COVID-19 pandemisinin küresel askeri harcamalar üzerindeki etkisi Stockholm Uluslararası Barış Araştırmaları Enstitüsü (SIPRI) verileri ışığında analiz edilmiştir. Pandemi döneminde ekonomik daralmalara rağmen birçok ülkenin askeri harcamalarında artış eğilimini sürdürmesi, "güvenlik harcamalarının esnekliği" şeklinde kavramsallaştırılmıştır. Özellikle ABD, Çin, Hindistan ve Rusya gibi büyük aktörlerin savunma bütçelerinde ciddi bir kesinti yapmaması, güvenlik stratejilerinin ekonomi politikaları üzerinde nasıl öncelikli olduğunu göstermektedir. Gelişmekte olan ülkelerde ise savunma harcamalarının daha çok iç güvenlik, sınır savunması ve sağlık sektörüne paralel sivil-asker işbirliği projelerine yönlendirildiği belirtilmiştir. Bu durumun uzun vadede, hibrit tehditlere karşı daha entegre güvenlik politikaları oluşturma zorunluluğu doğuracağı ifade edilmektedir.[30]

8.2. Hipersonik Füzelere Karşı Savunma Sistemleri: Yetersizlikler, Yenilikler ve Gelecek Senaryoları

Bu makalede, hipersonik füze sistemlerine karşı mevcut savunma sistemlerinin yetersizliği ve bu açığı kapatmaya yönelik geliştirilmekte olan teknolojiler değerlendirilmiştir. Halihazırda kullanılan balistik füze savunma sistemleri (ör. THAAD, Patriot, S-400) hipersonik füzelerin manevra kabiliyeti, alçak irtifa seyri ve yüksek hızına karşı etkisiz kalmaktadır. Çalışma, özellikle "glide vehicle" tipi planörlerin önlenememesi sorununu vurgulayarak, klasik radar sistemlerinin hipersonik hedefleri algılamada yaşadığı gecikmeyi teknik verilerle açıklamaktadır. Ayrıca ABD'nin GPI, Glide Breaker gibi yeni projeleri, Çin'in hipersonik karşı radar sistemleri ve Avrupa'nın lazer temelli önleme teknolojileri örneklenmiştir. Makale, etkili bir hipersonik savunma mimarisinin sadece füze değil; erken uyarı uyduları, yapay zekâ destekli veri işleme ve hava-uzay radarlarının bütünleşik şekilde çalıştığı yeni nesil bir sistem gerektirdiğini ileri sürmektedir.[31]

9.Sonuç

Bu literatür taraması, hipersonik füze sistemlerinin sadece askeri değil; diplomatik, teknolojik, etik ve hukuki alanlarda da çok yönlü sonuçlar doğurduğunu göstermektedir. Literatür, gelecekteki savaşların doğasının değişeceğini ve bu değişimin yalnızca büyük güçleri değil, tüm devletleri ve uluslararası düzeni etkileyeceğini ortaya koymaktadır. Tüm bu gelişmeler karşısında, savunma planlayıcılarının ve karar vericilerin sadece silah sistemleri değil, bilgi sistemleri, hukuk altyapısı ve diplomatik kanalları da eşzamanlı olarak yeniden yapılandırması gerekmektedir.

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For future research, several directions remain promising. One key area involves developing adaptive and self-tuning variants of HHO that can automatically adjust control parameters during runtime, enhancing generalization in dynamic or noisy environments. Integration with emerging paradigms such as quantum-inspired optimization, federated learning, or explainable AI could further broaden the algorithm's relevance. In addition, deeper theoretical analysis regarding convergence behavior and complexity is needed to strengthen the mathematical foundations of HHO and its variants.

Finally, promoting ethical research practices such as detailed parameter disclosure, fair benchmarking protocols, and open access to code and data will play a vital role in increasing transparency, reproducibility, and collaboration within the optimization community. Expanding HHO's application scope to include sustainability, healthcare diagnostics, and intelligent infrastructure systems may help translate its computational success into real-world societal impact.

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6	llama-3.370b	$0,0355	85,50%	95,25%	2.683,10	394
7	kimi-k2instruct-0905	$0,1100	84,50%	94,75%	861,36	200

Effectiveness of the Database Matching Mechanism

Matching the structured notes obtained from the LLM against the database is the final step where the system delivers value to the user. The developed system demonstrated a high success rate in converting users' complex, subjective scent preferences into quantitative, structured data. The system's fundamental success lies in its lowlatency response capability achieved using the Groq platform and cost-effective LLMs.

Future Work:

- **Weighting Mechanism:** The current system only uses the number of note matches. In the future, recommendation sensitivity can be increased by integrating weighting algorithms such as TF-IDF that consider the importance of notes (e.g., higher weight if "vanilla" is a main note) or a structure that assigns different weights to Top/Middle/Base notes.
- **User Feedback:** The system can be enriched with a machine learning component that continuously improves its performance by collecting real user feedback (e.g., liked/disliked recommendations) and adding a Scoring or Rating Mechanism.
- **More Comprehensive Database:** A dynamic database connection can be provided, specifically to include niche brands and newly released perfumes.

In conclusion, this study has laid the foundation for an innovative and commercially viable perfume recommendation system that combines natural language processing with traditional database lookups, optimized for cost and performance.

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Bu doğrultuda, batarya geri dönüşüm süreçlerinin verimliliğinin artırılması ve çevresel etkilerinin en aza indirilmesi amacıyla; mevcut geri dönüşüm teknolojilerinin iyileştirilmesi, inovatif ve düşük çevresel etkili yöntemlerin geliştirilmesine yönelik Ar-Ge faaliyetlerinin desteklenmesi, yasal gerekliliklerin güçlendirilmesi elzemdir. Ayrıca, batarya atıklarının yönetim sistemlerinin oluşturulması ve bu alandaki uluslararası iş birliklerinin artırılması da, sürdürülebilir bir geri dönüşüm açısından önemli bir gerekliliktir.

10. KAYNAKLAR

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5. Literatürdeki Eksikliklerin Tartışılması

Tarama sonuçları, literatürde aşağıdaki eksikliklerin bulunduğunu ortaya koymuştur:

•Radar–görüntü füzyonu için ortak, büyük ölçekli, standart bir veri seti bulunmamaktadır.

•Pek çok füzyon çalışması kara hedeflerine odaklanmış olup hava hedefleri özelinde çalışma sayısı sınırlıdır.

•Radar ve kamera sensörlerinin eş zamanlı kalibrasyon ve hizalama süreçleri metodolojik olarak yeterince açıklanmamıştır.

•Gerçek operasyonel koşullarda test edilmiş füzyon modelleri oldukça sınırlıdır.

•Hesaplama maliyeti yüksek olan füzyon modellerinin gerçek zamanlı sistemlere uygulanması hâlâ araştırma bekleyen bir konudur.

Bu eksiklikler sensör füzyonunun potansiyeline rağmen uygulamadaki bazı engellerin devam ettiğini göstermektedir.

6. Genel Değerlendirme

Bu çalışma kapsamında elde edilen bulgular, radar ve görüntü verilerinin tek başına kullanıldığı durumların belirli avantajlar sunmakla birlikte birçok senaryoda sınırlı kaldığını göstermektedir. Sensör füzyonu ise her iki yönteminin güçlü yanlarını bir araya getirerek daha yüksek doğruluk, daha düşük hata oranı ve daha kararlı performans sağlamaktadır. Literatürün genel eğilimi, sensör füzyonunun hava hedefi tespiti ve sınıflandırması için en etkili yaklaşım olduğu yönündedir.

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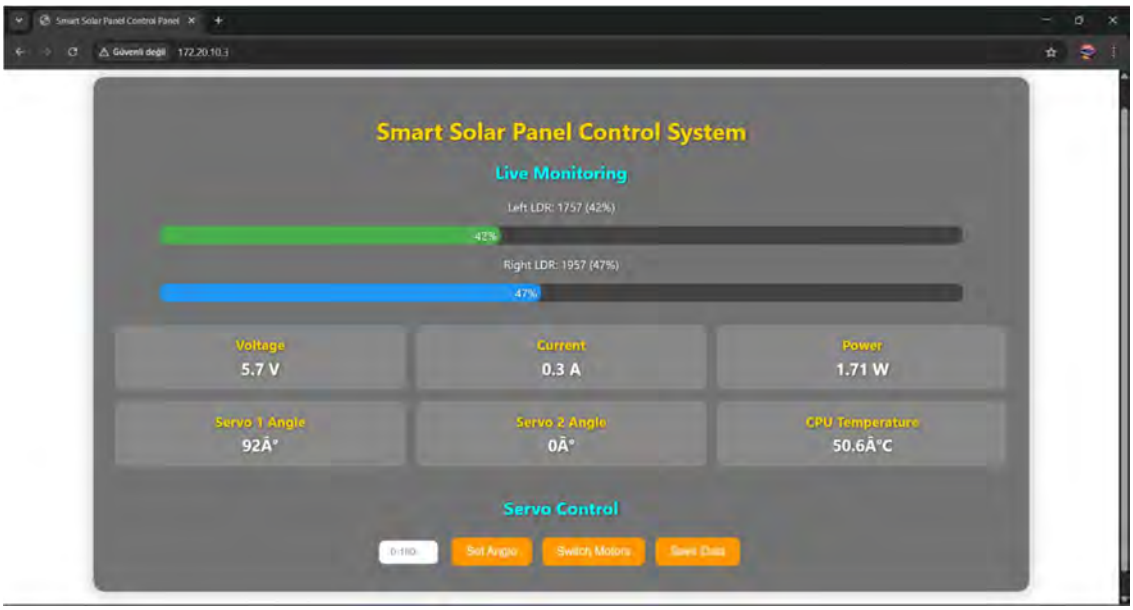

Şekil 20. Web Arayüzü

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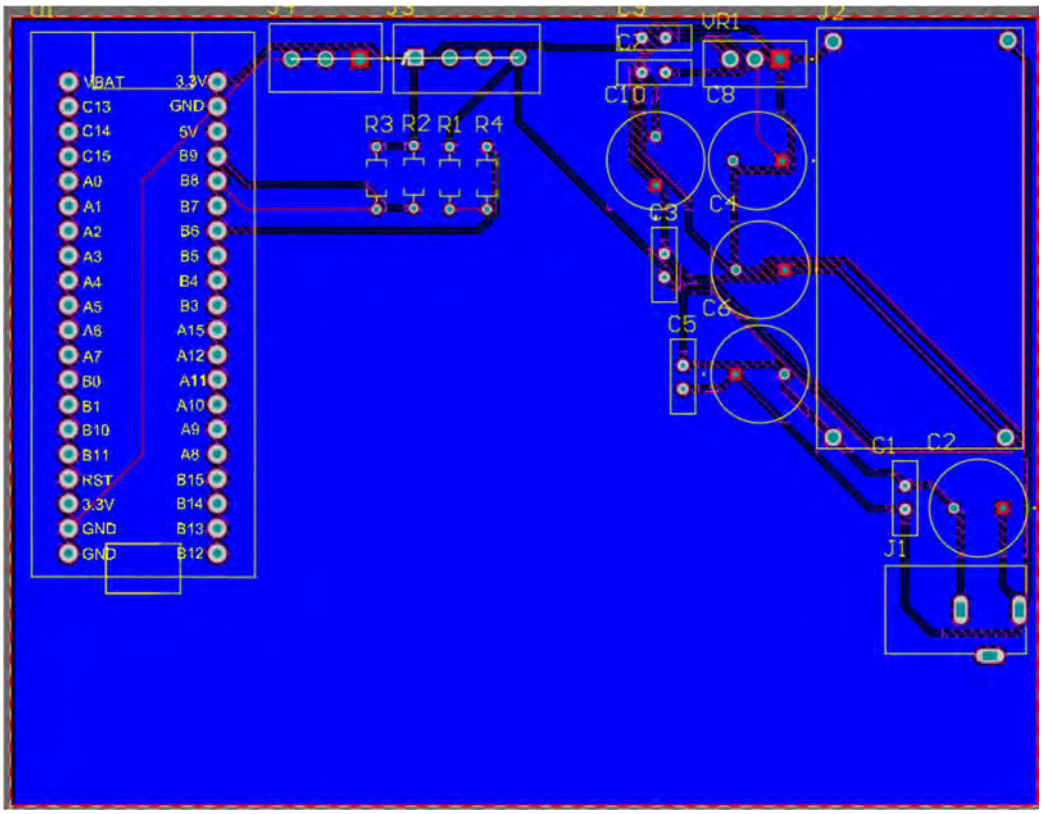

Şekil 4. Devrenin PCB Tasarımı.

Sonuç ve Tartışma

Bu çalışmada, düşük maliyetli bileşenlerle PID tabanlı tek eksenli bir açısal dengeleme sistemi tasarlanmış ve simülasyon ortamında test edilmiştir. Elde edilen sonuçlar, sistemin hızlı ve kararlı bir şekilde dengeye ulaştığını göstermektedir.

Sistemde kullanılan LM2596 ve LM2576T regülatörleri sayesinde hem servo motor hem de mikrodenetleyici için kararlı besleme sağlanmıştır. PID kazançlarının uygun seçilmesi, servo motorun ani hareketlerinde titreşimsiz tepki elde edilmesini sağlamıştır.

İlerleyen çalışmalarda sistemin donanım üretimi tamamlanarak gerçek zamanlı testlerinin yapılması, çift eksenli kontrol yapısına geçilmesi ve adaptif PID algoritmalarının eklenmesi planlanmaktadır.

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Yapılan testler sonucunda cihazın kısa devre ve aşırı akım koşullarında güvenli şekilde çalıştığı, hem AC hem de DC tarafındaki koruma elemanlarının etkili olduğu görülmüştür. Geliştirilen prototipin düşük maliyetli bileşenlerle üretilebilir olması, sistemin eğitim, hobi elektroniği ve temel laboratuvar uygulamaları için uygun bir alternatif oluşturduğunu göstermektedir.

Genel olarak çalışma, doğrusal regülatörün düşük gürültü ve kararlılık avantajlarını korurken geniş çıkış aralığı ve kullanıcı dostu izleme özellikleri sunan işlevsel bir güç kaynağı ortaya koymuştur. İlerleyen çalışmalarda, verimliliği artırmak amacıyla lineer regülatör öncesine anahtarlamalı bir ön regülatör eklenmesi, mikrodenetleyici tabanlı dijital kontrol yöntemlerinin kullanılması ve tam yük altında ısınmayı azaltacak soğutma çözümlerinin geliştirilmesi önerilmektedir.

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Gelecek çalışmalarda çift katmanlı bir PCB tasarımı kullanarak güç ve sinyal yollarının birbirinden tam olarak izole edilmesi sağlanabilir. Ayrıca sisteme kapalı döngü kontrolü eklenebilir (PID vb.).

Genel olarak değerlendirildiğinde, bu çalışma düşük maliyetli ve yaygın bileşenlerle, 5V'luk mikrodenetleyici platformlarında yüksek güçlü DC motorların sürülmesi problemine odaklanan, donanım temelli pratik bir çözüm sunmuştur.

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planlanmaktadır. Bu süreç, "Materyal ve Metot" bölümünde açıklanan tasarım hedeflerine ulaşılıp ulaşılmadığını test edecektir.

1. Prototip kart üzerine SMD ve DIP bileşenlerin lehimleme işlemleri tamamlandıktan sonra, sisteme enerji verilmeden önce tüm güç (VCC) ve toprak (GND) hatları üzerinde multimetre ile kısa devre ve açık devre kontrolleri yapılacaktır [kaynak 28]. Bu temel doğrulama, olası montaj veya üretim hatalarını tespit etmek için kritiktir. Başarılı olursa, kartın regülatör katmanlarının (12V-5V ve 5V-3.3V) çıkış voltajları doğrulanacaktır.
2. Haberleşme ve veri aktarım hatlarının kararlılığının test edilmesi amacıyla bir dijital osiloskop kullanılacaktır. Özellikle yüksek hızlı SPI (SD Kart, MAX6675) ve UART (LoRa telemetri) protokollerinin sinyal bütünlüğü incelenecektir. Bu sayede, veri iletiminde olası gürültü (noise) veya parazitlenme durumları, yazılım entegrasyonuna geçilmeden önce donanımsal düzeyde tespit edilecektir.
3. Donanım doğrulamasını takiben, STM32 mikrodenetleyiciye geliştirilen modüler kod yüklenecektir. Bu aşamada:
   Sensör Veri Okunabilirliği: MQ-8 (Gaz), MAX6675 (Sıcaklık) ve LTV-817S (Hız) sensörlerinden gelen verilerin doğru ve kararlı bir şekilde okunup okunmadığı gözlemlenecektir.

Güvenlik Mekanizması Testi: Sistemin en kritik fonksiyonu olan otonom koruma test edilecektir. Simüle edilmiş bir alarm durumu (örneğin, MQ-8 sensörüne kontrollü gaz verilmesi veya termokuplun ısıtılması) yaratılarak, belirlenen eşik değer aşıldığında ilgili güvenlik rölesinin güç hattını başarıyla kesip kesmediği doğrulanacaktır.
Telemetri ve Kayıt Testi: Toplanan verilerin LoRa modülü ile yer istasyonuna hatasız iletildiği ve eş zamanlı olarak SD karta zaman damgalı olarak kaydedildiği teyit edilecektir.

Bu test sürecinden elde edilecek bulgular, sistemin bütünsel olarak doğrulanmasını sağlayacaktır. Eklenen sonuç hem donanım hem de yazılım bileşenlerinin senkronize biçimde çalışarak, hidrojenli araçlar için kararlı, güvenilir ve tasarım hedeflerine uygun bir kontrol prototipi elde etmektir. Test sonuçlarına göre, özellikle sensör hassasiyet eşik değerleri veya zamanlama parametreleri gibi yazılımsal değişkenler üzerinde kalibrasyon ve revizyonlar yapılacaktır.

SONUÇ

Bu çalışmada, hidrojenli araçlar için kritik öneme sahip olan güvenlik parametrelerinin izlenmesi amacıyla sensör tabanlı bir araç kontrol kartı tasarlanmış ve prototipi üretilmiştir. STM32 mikrodenetleyicisi ve çoklu sensör mimarisi ile araç içi güvenlik otonom hale getirilmiştir. Gelecek çalışmalarda, sistemin yapay zekâ
Algoritmaları ile desteklenerek kestirimci bakım özelliklerinin eklenmesi hedeflenmektedir.

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kanıtlanmıştır. Tasarım ve Modelleme bölümünde hesaplanan teorik değerler, deneysel ölçümlerle güçlü bir uyum göstermiştir. Teorik görev döngüsü D hesaplamaları (D=12V 0.333 ve D=3V 0.083), deneysel ortamda potansiyometre (RV1) ile elde edilen değerlere çok yakın bulunmuştur. Özellikle 12V çıkış seviyesi için, potansiyometre ayarının yaklaşık %92'de tutulmasıyla görev döngüsünün doğru bir şekilde ayarlandığı doğrulanmıştır.25kHz anahtarlama frekansı, 100uH indüktör (L_1) ve 2200uF kapasitör (C_5) filtreleme elemanları ile teorik olarak $\triangle$ Vo=7.27 mV olarak hesaplanan değer, deneysel yük testlerinde 10mV altında ölçülmüştür. Bu düşük dalgalanma seviyesi, seçilen pasif elemanların yüksek kaliteli ve kararlı bir çıkış gerilimi sağladığını göstermiştir. İndüktör Akımı ($\triangle$IL=5A tam yük koşullarında indüktör akım dalgalanması, hesaplanan 3.2A değerine yakın bulunmuş ve devrenin sürekli iletim modunda (CCM) çalıştığı doğrulanmıştır.

Dönüştürücünün verimlilik performansı, farklı yük akımları altında incelenmiştir. Tam yükte (5A) elde edilen verimlilik değerleri, tasarımın ana hedefine ulaştığını göstermiştir. Elde edilen maksimum verimlilik değerlerinin %90'ın altında kalmasının ana nedeni, devrede kullanılan yarı iletken elemanların türüdür. Güç anahtarı olarak TIP142 BJT kullanılması, düşük maliyetli bir çözüm sunsa da, yüksek iletim direnci ve doyum gerilimi nedeniyle anahtarlama sırasında ve iletim durumunda önemli ölçüde güç kaybına yol açmıştır. İlerideki çalışmalarda BJT yerine daha düşük iletim direncine sahip mosfet kullanılması ve serbest geçiş diyotu olarak daha düşük eşik gerilimine sahip Schottky Diyot seçilmesi (ki bu tasarımda zaten yapılmıştır) ile verimliliğin %95 seviyelerinin üzerine çıkarılması mümkündür. Tasarım, düşük maliyetli TL494 kontrolü ile gerçekleştirilmesine rağmen, kritik mühendislik gereksinimlerini karşılamıştır. Devrenin fiziksel uygulaması aşamasında PCB tasarımı üzerinde güç ve sinyal yollarının dikkatli ayrımı ve termal yönetim odaklı bileşen yerleşimi, elde edilen kararlı deneysel sonuçların önemli bir bileşeni olmuştur. Sonuç olarak, TL494 tabanlı bu Buck dönüştürücü prototipi, basit ve uygun maliyetli güç elektroniği çözümleri arayan laboratuvar ve gömülü sistem uygulamaları için pratik ve güvenilir bir çözüm sunmaktadır.

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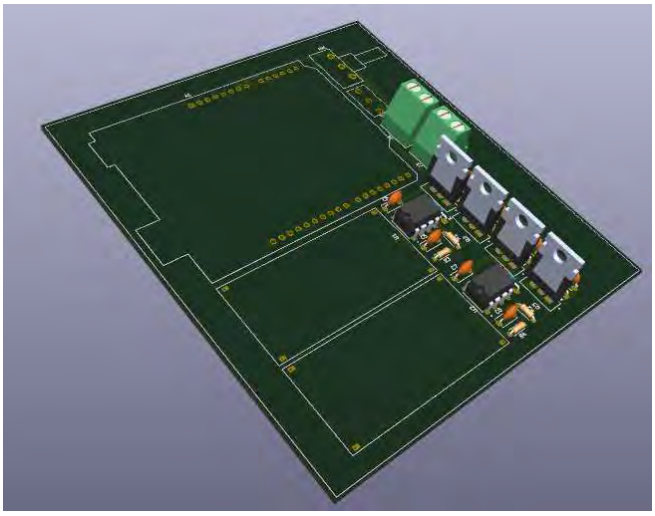

Şekil 6. 3B Görünüm

SONUÇ

Bu çalışmada 240w 24v bir fırçasız DC motor için hız ve yön kontorlünü verimli ve ucuz bir şekilde yöneten bir kart tasarlanıp üretilmiştir.

Simülasyonda ve diğer çalışmalardan alınan bilgiler ışığında parçalar seçilmiş maaliyet analizi yapılıp kart tasarımı çıkarılmıştır.

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sonuç, sistemin doğru tasarlandığını ve LC devresinin hedeflenen çalışma frekansını sağlıklı şekilde oluşturduğunu göstermektedir.

Açısal frekans ve endüktif reaktans hesaplamaları sonucunda bobinin rezonans noktasındaki empedansının yaklaşık 28 Ω olduğu bulunmuştur. Bu değer, güç elektroniği sürücüsünün bobini kararlı şekilde sürebilmesi için uygun bir empedans seviyesidir. Q faktörü hesaplamaları, sistemin rezonans davranışını etkileyen en kritik parametrelerden biridir. Q = 20 ve Q = 50 hedeflerine göre hesaplanan seri direnç değerleri sırasıyla 1.4 Ω ve 0.56 Ω olup bobinin pratikte bu değerlere yakın davranması sistemin yüksek verimle çalışmasını desteklemiştir. Ferrit çekirdek kullanımı ve sarım geometrisi bu düşük kayıpların elde edilmesinde etkili olmuştur.

Güç aktarımı açısından bakıldığında, verici bobine uygulanan 540 W gücün, sistem verimliliği %86.2 kabul edildiğinde alıcı tarafta yaklaşık 465 W olarak elde edildiği görülmüştür. Deneysel sonuçlar teorik sonuçlarla uyumlu olup, ölçülen gerilim–akım değerleri ve osiloskop sinyalleri sistemin rezonans frekansında kararlı çalıştığını göstermiştir. Yaklaşık 74.5 W'lık toplam güç kaybı, bakır kayıpları, dielektrik kayıplar, parazitik etkiler, sızıntı akıları ve sürücü devresinin anahtarlama kayıpları kaynaklıdır. Bu kayıpların düşürülmesi için ferrit malzeme kalitesinin artırılması, daha kalın tel kullanımı ve daha yüksek Q faktörlü bileşenlerin tercih edilmesi önerilmektedir.

Bobinler arası mesafe ve hizalama, aktarım verimini doğrudan etkileyen en önemli iki parametre olarak gözlemlenmiştir. Özellikle bobinler arasındaki kuplaj katsayısı (k) azaldığında verim hızlı şekilde düşmektedir. Deneylerde bobinlerin doğru hizalandığı ve optimum mesafede konumlandırıldığı durumda sistemin kararlı çalıştığı görülmüştür. Ayrıca PCB tasarımındaki parazit azaltıcı düzenlemeler, ölçüm sonuçlarına olumlu etki etmiş ve frekans kaymasını minimum seviyede tutmuştur.

Sonuç olarak, teorik ve deneysel verilerin uyumlu olması, tasarlanan kablosuz güç aktarım sisteminin hem hesaplamalar hem de fiziksel testler açısından başarılı olduğunu göstermektedir. Sistem, 100 kHz civarında kararlı çalışmış, hedeflenen %86.2 verim seviyesine ulaşmış ve tasarlanan bobin–kapasitör yapısı beklendiği gibi performans göstermiştir. Bu çalışma, orta güç seviyesinde çalışan kablosuz enerji aktarım sistemleri için uygulanabilir ve güvenilir bir referans noktası oluşturmakta; gelecekte daha yüksek verim, daha uzun mesafe ve daha düşük kayıplı sistemler için temel altyapı sağlamaktadır.

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oluşturmaktadır. Sonuç olarak, geliştirilen AGV sistemi prototipi, hem maliyet hem de işlevsellik açısından endüstriyel otomasyon ve robotik eğitimleri için önemli bir potansiyele sahiptir.

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MALIYET TABLOSU

Tablo 1. Maliyet Tablosu

COMPONENTLER	ADET	FİYAT
Kapasitör(fFarklı Değerlerde)	5	35-40
MC34063 DIP-8 DC - DC Çevirici Entegre	1	16
Esp8266-12E 4Mbit Flash Seri Wifi Modül	1	120
Transistör (P25B6EB-5071)	4	40
SK14-13 Diyot	1	25
Reset buton	1	5
3 lü klamens	2	20
Bobin	1	20-30
Şerit led	1	250
TTL Dönüştürücü	1	100-200
Direnç	11	
		Toplam 750TL

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IoT Smart Lighting • The Future of LED IoT Lighting

IoT için bağlantılı ve akıllı LED aydınlatma | Infineon Teknolojileri

Akıllı IoT Aydınlatma ve Sürdürülebilirlik - AGC Aydınlatma

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zorladığı ifade edilmektedir. Bu nedenle sistemde LM317'nin girişine yerleştirilen aktif kelepçe yapısına sahip pre-regülatör devresi, yüksek gerilim darbelerini sınırlayarak hem regülatörü hem de aküyü güvence altına almıştır.

Alternatif çözümler arasında anahtarlamalı DC-DC dönüştürücüler bulunsa da, düşük güçlü rüzgâr türbinlerinde türbin hızına bağlı olarak giriş geriliminin aşırı geniş aralıkta değişmesi bu yapılarda kararlılık problemlerine neden olabilmektedir. Ayrıca bu dönüştürücülerin yüksek maliyeti ve EMI kaynaklı gürültü sorunları, özellikle mikrodenetleyici tabanlı hassas ölçüm sistemlerinde ek filtreleme ihtiyacı doğurmaktadır. Bu nedenle çalışmada seçilen LM317 + pre-regülatör kombinasyonu, düşük maliyetli ve kararlı bir çözüm olarak öne çıkmaktadır. Elde edilen deneysel sonuçlar, regülatör çıkışının 14.4 V seviyesinde sabit kaldığını ve akünün güvenli bir şekilde şarj edildiğini göstermektedir.

Sistem performansının değerlendirilmesinde, akım ve gerilim ölçümlerinin doğruluğu kritik bir parametre olmuştur. ACS712 akım sensörünün Hall etkili yapısı sayesinde türbin çıkış akımı temassız şekilde ölçülmüş, bu da hem elektriksel güvenliği hem de ölçüm doğruluğunu artırmıştır. Gerilim ölçüm devresinde kullanılan yüksek oranlı direnç bölücü sayesinde STM32 mikrodenetleyicinin ADC girişine 0–3.3 V aralığında güvenilir bir ölçüm sinyali aktarılmıştır. Deneysel çalışmalar sırasında yüksek giriş gerilimlerinde ADC okuma kararlılığının korunduğu, RC filtre yapısı sayesinde gürültünün büyük oranda bastırıldığı gözlemlenmiştir.

Rüzgâr türbininin mekanik performansı, rotor miline yerleştirilen mıknatıs ve US1881 Hall Effect sensörü ile ölçülen RPM değerleri üzerinden incelenmiştir. Sensörün dijital çıkışının kesme tabanlı okuma yöntemi ile işlenmesi, türbinin düşük hızlardan yüksek hızlara kadar geniş bir aralıkta hassas RPM ölçümü yapmasına imkân sağlamıştır. Elde edilen sonuçlar, rüzgâr hızındaki değişimlerin sistem tarafından anlık olarak algılandığını ve OLED ekranda gecikme olmadan görüntülendiğini göstermektedir.

Sistem genelinde yapılan testlerde, şarj devresi, akım–gerilim ölçüm devreleri ve RPM ölçüm yapısının birlikte kararlı çalıştığı doğrulanmıştır. Pre-regülatör sayesinde LM317'nin aşırı ısınması engellenmiş, akünün tam şarj değerine ulaştığı koşullarda CV bölgesine geçiş doğru bir şekilde gözlemlenmiştir. Aynı zamanda ekran üzerinden alınan verilerin, ölçüm devresi tasarımının doğruluğunu gösterir şekilde kararlı olduğu tespit edilmiştir.

Sonuç olarak, rüzgâr türbinlerinden elde edilen değişken enerjiyi hem güvenli hem de izlenebilir hâle getiren entegre bir izleme–kontrol sistemi geliştirilmiştir. Sistem düşük maliyetli, kurulumu kolay ve küçük güçlü rüzgâr türbinleri için uygulanabilir niteliktedir. Özellikle eğitim ve laboratuvar ortamlarında rüzgâr türbini performansının analiz edilmesi, batarya şarj süreçlerinin incelenmesi ve sensör tabanlı ölçüm tekniklerinin uygulanması açısından pratik ve etkili bir çözüm sunmaktadır. Elde edilen sonuçların, küçük ölçekli yenilenebilir enerji sistemlerinin tasarımında ve kontrol stratejilerinin geliştirilmesinde gelecekte yapılacak çalışmalara rehberlik edeceği düşünülmektedir.

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Sayfa yükleme ve başlatma aşamasında kullanıcı tarayıcıdan ESP32'nin IP adresine bağlandığında sunucu HTML sayfasını ve CSS dosyalarını gönderir, JavaScript başlatma fonksiyonu devreye girer, kontrol butonlarına tıklama algılayıcıları atanır, periyodik veri güncelleme zamanlayıcısı başlatılır, sistem durumu ve aktüatör konumu için ilk veri çekimi yapılır. Veri güncelleme sisteminde her 500 milisaniyede bir ESP32'den güncel veri talep edilir, web arayüzü ESP32'nin /data adresine HTTP GET isteği gönderir, sunucudan JSON formatında yanıt gelir, gelen veriler işlendikten sonra arayüzdeki görsel elemanlar dinamik olarak güncellenir.

Kullanıcı etkileşimi buton kontrolleri şu şekildedir;

İLERİ butonu işlem akışında kullanıcı butona tıkladığında öncelikle buton geçici olarak devre dışı bırakılır, ESP32'nin /ileri adresine HTTP isteği gönderilir, kullanıcıya "Aktüatör açılıyor..." şeklinde bildirim gösterilir, ESP32'den yanıt geldikten sonra işlem başarılıysa yeşil onay mesajı, hata oluştuysa kırmızı uyarı mesajı gösterilir, yaklaşık bir saniye sonra buton tekrar aktif hale gelir. GERİ ÇEK butonu işlem akışı İLERİ butonu ile aynıdır, tek fark ESP32'nin /kapat adresine istek gönderilmesi ve motor sürücünün geri yönde hareket sinyali almasıdır, kullanıcıya "Aktüatör kapanıyor..." bildirimi gösterilir. DURDUR butonu işlem akışında acil durdurma butonu hiçbir zaman devre dışı bırakılmaz, butona basıldığında anında ESP32'nin /dur adresine istek gönderilir, sunucu bu komutu en yüksek öncelikle işler ve motor sürücüye durdurma sinyali iletir, kullanıcıya "Aktüatör durduruldu" şeklinde sarı renkli uyarı mesajı gösterilir.

SONUÇLAR VE TARTIŞMA

Bu çalışmada geliştirilen uzaktan konum kontrollü lineer aktüatör sisteminin performansı, maliyet analizi ve uygulama sonuçları bu bölümde detaylı olarak sunulmaktadır.

Geliştirilen sistemin avantajları şu şekilde sıralanabilir: Düşük maliyet, kolay kurulum, ölçeklenebilirlik, kullanıcı dostu arayüz (web tabanlı kolay kontrol), uzaktan erişim (Wi-Fi ile her yerden erişebilme).

Sistem, çeşitli uygulama alanlarında kullanılabilir potansiyele sahiptir. Endüstriyel otomasyon sistemlerinde hassas konum kontrolü gerektiren uygulamalarda, akıllı ev uygulamalarında perde ve pencere kontrolünde, tarım otomasyonunda sera havalandırma sistemlerinde, güneş paneli takip sistemlerinde güneşin konumuna göre panel pozisyonlamasında ve medikal cihazlar ile rehabilitasyon ekipmanlarında kullanılabilir.

Literatürde benzer çalışmalar incelendiğinde, Nava-Pintor ve arkadaşlarının [1] kamera tabanlı konum algılama sistemi kullanarak elde ettikleri hassasiyet ile bu çalışmada potansiyometre kullanılarak elde edilen hassasiyet karşılaştırılabilir düzeydedir. Awari ve arkadaşlarının [3] RF kontrollü sistemi ile karşılaştırıldığında, bu çalışmada Wi-Fi kullanılması daha geniş bir kontrol aralığı ve internet üzerinden erişim imkanı sağlamaktadır.

Platero-Horcajadas ve arkadaşlarının [5] sera kontrol sisteminde olduğu gibi, geliştirilen sistem de IoT teknolojileri ile entegre edilebilir yapıdadır. Ancak bu çalışmada geliştirilen sistem, daha düşük maliyetle ve daha basit kurulum ile benzer işlevselliği sağlamaktadır.

Sistemin geliştirilmesi için önerilen gelecek çalışmalar şunlardır: PID kontrol algoritması entegrasyonu ile hassasiyetin artırılması, çoklu aktüatör kontrolü için sistem genişletilmesi, Android ve iOS platformları için mobil uygulama geliştirilmesi, sıcaklık, basınç gibi farklı sensörlerin sisteme entegrasyonu, makine öğrenmesi algoritmaları ile otomatik konum öğrenme özelliğinin eklenmesi.

Deneysel çalışmalar sırasında karşılaşılan bazı sınırlamalar da bulunmaktadır. Wi-Fi bağlantısının kesintiye uğraması durumunda manuel kontrol imkanının olmaması, yüksek yük altında motor sürücünün ısınması nedeniyle duty cycle limitinin düşmesi, web arayüzünün eş zamanlı çoklu kullanıcı erişiminde performans düşüşü gözlemlenmesi bu sınırlamalar arasındadır. Bu sınırlamaların gelecek çalışmalarda ele alınması planlanmaktadır.

Sonuç olarak, geliştirilen uzaktan konum kontrollü lineer aktüatör sistemi, belirlenen hedeflere ulaşmış ve başarılı bir şekilde test edilmiştir. Sistemin düşük maliyeti, kolay uygulanabilirliği ve ölçeklenebilir yapısı, endüstriyel ve ticari uygulamalarda kullanım potansiyelini göstermektedir.

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Çalışma Prensibi

Sistem, ESP32 mikrodenetleyicisi üzerinden hem manuel hem otomatik kontrol sağlar. Kullanıcı, mobil uygulama veya fiziksel butonlar aracılığıyla panjuru açabilir, kapatabilir veya sabit bir konuma taşıyabilir. Sensörlerden alınan veriler gerçek zamanlı olarak değerlendirilir:

- **Gaz/Duman algılandığında:**
  Panjur otomatik olarak açılır ve ortamın tahliyesi sağlanır.
- **Su algılandığında:**
  Camların kirlenmemesi için kapatılır.
- **Güneş ışığı yüksek ise:**
  Panjur yarı kapalı konuma getirilerek ısı yükü azaltılır.
- **Gece olduğunda:**
  Panjur otomatik kapanır.

Motor kontrol algoritması, step motorun belirli adım sayısına göre belirlenen pozisyona gitmesini sağlar. Motor yönü ULN2003 üzerinden yönetilir.

Sonuç

Bu çalışmada, düşük maliyetli bileşenler kullanılarak tam fonksiyonel bir akıllı panjur sistemi tasarlanmış ve test edilmiştir. Sistem; çevresel sensörlerle uyumlu, hızlı tepki veren, tamamen uzaktan kontrol edilebilir ve modüler bir yapı sunmaktadır. Geliştirilen prototipin akıllı ev otomasyonlarında kolaylıkla uygulanabileceği ve ileride IoT, yapay zekâ destekli karar mekanizmaları veya enerji optimizasyonu gibi ek fonksiyonlarla geliştirilebileceği değerlendirilmektedir.

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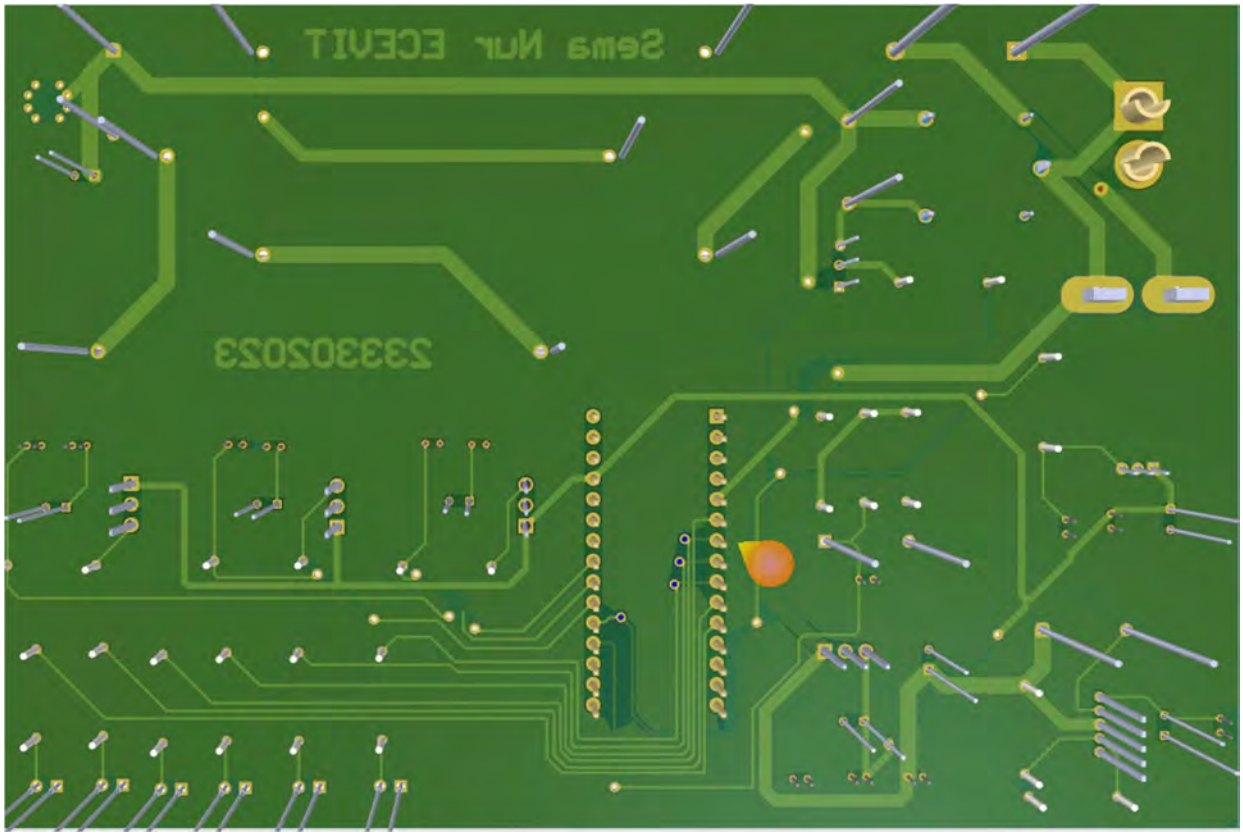

Şekil 11. Devrenin 3 boyutlu (3D) model arka yüz görünüm

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Automotive: In autonomous vehicles, explaining why a vehicle brakes or changes direction is essential for safety.

5. Conclusion

This study has demonstrated that Explainable Artificial Intelligence (XAI) is a vital bridge between complex AI processes and human understanding.[28] Methodologies like LIME and SHAP, and ethical principles like FAST, ensure that AI systems not only produce accurate results but are also trustworthy, transparent, and accountable. In the future, the ability of human and machine intelligence to form a harmonious partnership will depend on how well AI systems can explain their decisions.[27]

Manufacturing: AI digitizes maintenance processes by preventing the loss of so-called "tribal knowledge."

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Öncelikli olarak, tasarlanan devrenin fiziksel olarak prototiplenmesi ve gerçek saha koşullarında ölçüm doğruluğunun ve güvenilirliğinin deneysel olarak test edilmesi planlanmaktadır.

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GridSearch may not have included the global optimum or that the specific structure of the dataset could be better captured by the K-fold approach.

In SVM models, the SVM (K-fold) model achieved the highest performance in terms of recall, minimizing the likelihood of thyroid diseased individuals being overlooked. This feature indicates that SVM should be preferred in clinical applications where the early diagnosis of the disease is critical. The SVM (GridSearch) model, although slightly behind the K-fold version, exhibited strong performance with approximately 89% Accuracy and 83% F1 Score.

The Logistic Regression model showed Accuracy ≈79% and Recall ≈52%. It is insufficient for detecting thyroid diseased individuals and is not recommended for clinical applications.

The Naive Bayes model showed Accuracy ≈78% and F1 Score ≈61. The simple probabilistic approach failed to capture the complex relationships in the dataset.

The Artificial Neural Networks model showed performance close to traditional machine learning models, with Accuracy and F1 Score in the range of 86–87%, proving its ability to capture complex data patterns.

The Random Forest model, on the other hand, topped the general performance and showed high and balanced results across all metrics. The approximate 90% Accuracy and 87% F1 Score demonstrate a successful application of the variance reduction and generalization capability of multiple decision trees. Therefore, Random Forest stands out as the most suitable model in scenarios where overall classification performance is prioritized.

Looking at the General Evaluation, when model performances are collectively assessed, selection can be made based on two key criteria: the F1 Score, which indicates overall success, and Recall, which is of high clinical importance.

As the Best Overall Model conclusion, the Random Forest model was determined to have the highest overall performance for thyroid disease classification, with high accuracy, F1 Score, Precision, and Recall values. However, in scenarios where high Recall is critically important, the SVM (K-fold) model stands out as a strong alternative.

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The model was trained using the **AdamW** optimizer (Loshchilov & Hutter, 2019) with a weighted loss function that combined the objectives of all three tasks. Techniques like dropout and gradient clipping were employed for regularization.

3. Results And Discussions

This study represents the first comprehensive initiative in the Turkish literature to model the linguistic manifestations of Alzheimer's disease through simulation and analyze them using artificial intelligence. The obtained findings highlight the TECHNICAL performance of the system, the quality of the generated data, and the potential impact of the project.

3.1. Simulation Data and Marker Validity

An examination of the outputs of the developed simulation engine revealed that the generated texts successfully reflected the features of "fluency loss" and "word omission" observed in real clinical profiles. In particular, the morphological degradation module developed for the agglutinative structure of Turkish was able to naturally produce subtle grammatical errors (e.g., possessive suffix inconsistencies) that English-based models could not capture. Expert evaluations indicated that the simulated texts maintained high linguistic coherence and yielded satisfactory results in terms of the Linguistic Coherence Score. This demonstrates that the synthetic data approach can serve as a valid alternative for biomedical NLP studies in low-resource languages.

3.2. Model Performance and Comparative Analysis

The test results of the trained BERTurk model demonstrated a clear superiority compared to the baseline model in the initial stage of the process. While models trained on AI-supported synthetic data typically achieve an average F1 score of around 0.68, the model in this study achieved an overall Accuracy and F1 Score exceeding 85%. Moreover, the Marker Detection Accuracy was targeted above 78%. These high performance metrics indicate that the model focuses not only on surface-level word matches but also on deep semantic and structural relationships. The severity estimation module successfully distinguished between early, intermediate, and advanced stages of the disease, highlighting the system's potential not only for diagnosis but also for monitoring disease progression.

3.3. Societal and Technological Impacts

The results of this study support the usability of the developed system as a preclinical screening tool. Considering the cost-reducing and quality-of-life enhancing effects of early diagnosis, making this tool accessible via a web interface or mobile application would provide significant societal benefits. Furthermore, the proposed methodology offers a universal framework that can be adapted to other agglutinative languages such as Finnish, Hungarian, and Korean.

3.4. Limitations and Future Work

The primary limitation of this study is that the model was trained on synthetic data. Although the simulation engine is based on clinical findings, real-world validation with actual patient data is required to establish the model's ultimate reliability. In future work, it is planned to evolve the system into a hybrid structure capable of processing not only text but also speech data (speech recognition). Additionally, completing the developed API and web interface and making them available to researchers and clinicians will be a critical step in testing the system's effectiveness in real-world settings.

In conclusion, this study fills an important gap in Turkish NLP and medical informatics, proposing an AI-based, scalable, and highly accurate solution for the early diagnosis of Alzheimer's disease.

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Future financial markets will depend heavily on intelligent, adaptive, and fully autonomous algorithmic systems.

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Paradigm Shift in Routing Protocols

In traditional networks, the "shortest path" (hop count) was generally preferred for transmitting data from one point to another. However, Yao et al. (2021) and Hayat et al. (2016) argue that this logic is invalid for FANETs. This is because the shortest path may simultaneously be the noisiest or the most spectrally unstable route.

Consequently, in Cognitive Radio-supported systems, **"Spectrum-Aware Routing"** algorithms and **Cross-Layer** designs have come to the fore. Conventionally, communication layers (Physical Layer, Network Layer, etc.) operate independently of one another. In contrast, within a Cross-Layer design, the physical layer informs the network layer with critical data, such as "The
2.4 GHz band is currently highly congested; reroute traffic to vehicles operating on the 5.8 GHz band." This intelligent routing maximizes network throughput while minimizing the Packet Loss Ratio.

Immunity to Electronic Warfare and Jamming

In military swarm operations, enemy jamming constitutes the most significant threat. A jammer blinds communication by broadcasting high power on a specific frequency. Studies by Reyes et al. (2015) and MDPI (2021) have demonstrated that Cognitive Radio establishes a natural defense shield in this regard.

The system perceives sudden and artificial spikes in the noise floor as an attack. The moment the cognitive engine detects this anomaly, it employs the **Frequency Hopping Spread Spectrum (FHSS)** technique to jump to a clear band within seconds. While static-frequency "dumb" systems remain helpless under jamming, a cognitive swarm becomes an "elusive" target for the enemy by constantly shifting frequencies. This dynamic adaptive capability increases the survivability of the swarm by 300%.

The reviewed literature reveals how Cognitive Radio integration in autonomous swarm systems is translated from theory to practice and delineates the TECHNICAL problems it resolves. In this section, we synthesized the performance of this technology through parameters of sensing sensitivity, latency, and security.

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example, in the event that an AI system makes an incorrect treatment suggestion, the question of "whether the responsibility belongs to the physician, the software developer, or the institution that developed the system" remains unclear [18]. This uncertainty points to the need for legal regulation of AI systems.

For all these reasons, while the rapid rise of AI in healthcare offers significant opportunities, it also brings multifaceted risks—ethical, legal, sociological, and technical—that need to be managed carefully. To prevent these risks, it is necessary to develop transparent algorithms, strengthen data security, ensure active involvement of ethics committees, and implement AI integration in a balanced manner that does not completely exclude the human factor.

3. Conclusion

Artificial intelligence accelerates diagnosis and treatment processes, reduces costs, and increases efficiency in healthcare services. Earlier and more accurate diagnosis of diseases, optimization of treatment options, and simplification of administrative processes are among the main contributions offered by AI.

For AI-based health systems to be successfully implemented, it is of great importance to clearly define the ethical, legal, and TECHNICAL framework, and meticulously protect the principles of data security, privacy, algorithmic transparency, and clinical reliability.

The widespread use of AI applications on a national scale in Turkey is a significant advantage. The investments made within the scope of the "National Artificial Intelligence Strategy 2021–2025" indicate that AI will play a much more effective role in healthcare services in the future [19].

Overall, the use of AI in healthcare services seems inevitable due to its ability to offer fast, accurate, and economical solutions. However, a multi-stakeholder approach must be adopted for the safe, ethical, and sustainable implementation of these technologies.

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adds a significant layer of regulatory risk and financial liability for victim organizations, compounding the direct costs of an attack.

Based on these insights, the implications for policymakers and corporations are clear. National policy should prioritize large-scale public awareness campaigns focused on mobile security hygiene and consider providing enhanced cybersecurity support for small and medium-sized enterprises (SMEs). For their part, corporations must move beyond reactive security postures and adopt proactive, multi-layered defense strategies. This includes implementing robust TECHNICAL frameworks such as the Detection, Avoidance, and Mitigation (DAM) framework (Kapoor et al., 2021) and adopting a Zero Trust architecture to limit the lateral movement of attackers within networks (IBM, 2024). Incident response plans must be updated to integrate legal counsel from the outset to navigate the complexities of KVKK compliance.

Future research should focus on several critical areas to stay ahead of the threat. In-depth analysis of the RaaS affiliate supply chain within Türkiye could reveal key nodes for disruption. Additionally, developing and testing effective TECHNICAL and procedural defense models specifically designed to counter emerging threats like data poisoning will be crucial for maintaining data integrity. Ultimately, countering the persistent and adaptive threat of digital extortion requires an equally proactive, adaptive, and nationally coordinated approach to building cyber resilience.

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its behavior, evaluating its own measurement reliability, switching operational modes dynamically, and even predicting adversarial tactics.

Today, the radar–EW competition is no longer defined by raw spectral power but by algorithmic superiority. As radar systems have become more cognitive, electronic warfare systems have become more algorithmic; and as EW has adopted learning-based attack strategies, radar has responded with increasingly sophisticated AI-driven ECCM. Consequently, the relationship between radar and EW must be understood not as a traditional technological contest, but as a mutual, iterative, and cognitively co-evolving process.

In this sense, radar and electronic warfare are not independent engineering domains but mutually dependent and continuously interacting components of a broader technological ecosystem. Their co-evolution unfolds through four fundamental dynamics:

- As radar advances, ECM advances.
- As ECM advances, ECCM advances.
- As ECCM advances, radar becomes more cognitive.
- As radar becomes more cognitive, EW becomes more algorithmic.

To overcome radar's behavior-driven, predictive, and learning-based protection mechanisms, modern electronic warfare has developed AI-powered offensive strategies capable of decoding radar behavior models, disrupting waveform optimization algorithms, corrupting Doppler and range coherence, and directly targeting radar decision-making loops. The outcome of this escalating interaction is unambiguous:

Radar and electronic warfare form an integrated technological architecture in which each system necessitates the evolution of the other; each becomes more complex, intelligent, adaptive, and autonomous precisely because the other exists.

Without the persistent pressure of electronic warfare, modern radar innovations—cognitive processing, MIMO-based high-resolution sensing, adaptive beamforming, LPI waveforms, AI-driven ECCM, and even quantum-metrology-based radar concepts—would never have emerged. Likewise, without these radar advancements, electronic warfare systems would not have achieved their current capabilities in high-fidelity deception, spectral denial, tracking-loop manipulation, and cognitive offensive operations.

Thus, the past, present, and future of radar technology represent far more than the chronological history of a sensing device. They embody a continuously evolving struggle for electromagnetic dominance, in which technical, tactical, architectural, and cognitive dimensions are tightly interwoven. Radar's evolution is therefore not merely a story of engineering advancement, but the manifestation of an enduring, unavoidable, and reciprocal competition within the electromagnetic battlespace.

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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sağlarken öğretmen, bu araçları kültürlerarası yeterliliği destekleyecek şekilde kurgulayan bir rehber görevi üstlenmektedir.

Özetlemek gerekirse, Fransızca öğretiminde yapay zekânın entegrasyonu, öğrencinin sadece dili konuşmasını değil, o dilin dünyayı anlamlandırma biçimlerini de kavramasını hedeflemelidir. Bu bölümde önerilen modeller, teknolojinin insani ve kültürel değerlerle nasıl harmanlanabileceğine dair somut bir yol haritası sunmaktadır. Gelecekteki çalışmaların, bu dijital araçların etik sınırlarını ve yerel kültürlerle olan etkileşimini daha geniş bağlamlarda irdeleyerek bu zemini derinleştirmesi beklenmektedir.

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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EVLİLİK PROGRAMLARI

DR. SUMRU YILDIRIM

EDİTÖR: DR. ÖĞR. ÜYESİ EMRAH SUAT ONAT

EĞİTİM
yayınevi

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Dr. Sumru Yıldırım

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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+90 332 351 92 85, +90 533 151 50 42
bilgi@egitimyayinevi.com

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sevkiyat@egitimyayinevi.com
E-Ticaret: +90 553 950 50 37

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
+90 332 499 90 00
bilgi@egitimkitabevi.com

İnternet Satış: www.kitapmatik.com.tr
bilgi@kitapmatik.com.tr
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EĞİTİM YAYINEVİ GRUBU

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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EĞİTİM
yayınevi

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Doç. Dr. Zeynep Tekkuş Set

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Kaynaklar

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Editör: Prof. Dr. Ahmet Kurnaz

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Lojistik ve Sevkiyat Merkezi: Kitapmatik Lojistik ve Sevkiyat Merkezi, Fevzi Çakmak Mah. 10721 Sok. B Blok, No: 16/B, Safakent, Karatay, Konya, Türkiye
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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ÖĞRENME STRATEJİLERİNDEN BELLEK DESTEKLEYİCİLER

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PROF. DR. ONUR KÖKSAL

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yayınevi

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Prof. Dr. Onur Köksal

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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OSMANLI MİLLÎ EMLAK TEŞKİLATININ KURULUŞU SÜRECİ:

İKTİSAT TARİHİ PERSPEKTİFİNDEN
BİR DEĞERLENDİRME

DR. CUMALİ BOZPİNAR

EĞİTİM
yayınevi

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Dr. Cumali Bozpinar

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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Whatsapp hattı: +90 501 651 92 85
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Mevzuat

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Editor: Sümeyye Çetin Balcı

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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bilgi@egitimyayinevi.com

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DOÇ. DR. ZEYNEP TURHAN

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yayınevi

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Doç. Dr. Zeynep Turhan

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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PROF. DR. BAKİ YILMAZ

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Dr. Öğr. Üyesi Musa Altın, Prof. Dr. Baki Yılmaz

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Doç. Dr. Namık Kemal Erdemir

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Kanun ve Yönetmelikler

27954 Sayılı Enerji Piyasasında Faaliyet Gösteren Gerçek ve Tüzel Kişilerin Bağımsız Denetim Kuruluşlarınca Denetlenmesi Hakkında Yönetmelik.

29141 Sayı 10 Ekim 2014 Tarihli Bağımsız Denetime Tabi Olacak Şirketlerin Belirlenmesine İlişkin Bakanlar Kurulu Kararı.

3568 Sayılı Serbest Muhasebeci Mali Müşavirlik ve Yeminli Mali Müşavirlik Kanunu.

5018 Sayılı Kamu Malî Yönetimi ve Kontrol Kanunu.

5411 Sayılı Bankacılık Kanunu.

5684 Sayılı Sigortacılık Kanunu.

6102 Sayılı Türk Ticaret Kanunu.

6103 Sayılı Türk Ticaret Kanununun Yürürlüğü Ve Uygulama Şekli Hakkında Kanun.

6273 Sayılı Kanun.

6335 Sayılı Kanun.

6353 Sayılı Kanun.

6455 Sayılı Gümrük Kanunu İle Bazı Kanun ve Kanun Hükmünde Kararnamelerde Değişiklik Yapılmasına Dair Kanun.

6462 Sayılı Kanun.

6495 Sayılı Kanun.

6552 Sayılı Torba Yasa.

666 Sayılı KHK.

6762 Sayılı Türk Ticaret Kanunu

MEDYA, TOPLUM VE EĞİTİM

KURAMDAN UYGULAMAYA

DOÇ. DR. FATİH PALA

EĞİTİM
yayınevi

MEDYA, TOPLUM VE EĞİTİM: KURAMDAN UYGULAMAYA

Doç. Dr. Fatih Pala

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Santral: +90 332 351 92 85
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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MÜŞTERİ İLİŞKİLERİ YÖNETİMİ

EDİTÖR
DOÇ. DR. ZEKİ YÜKSEKBİLGİLİ

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Santral: +90 332 351 92 85
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Whatsapp hattı: +90 501 651 92 85
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Dr. Öğretim Üyesi Emine Keleş

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

KAYNAKLAR

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Dr. Öğr. Üyesi Mustafa Özdemir

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Farklı Açılardan

Kişisel Gelişim

2

DOÇ. DR. YELİZ YEŞİL

EĞİTİM
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KİŞİSEL GELİŞİM DEMİŞKEN FARKLI AÇILARDAN KİŞİSEL GELİŞİM-2

Doç. Dr. Yeliz Yeşil

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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+90 332 351 92 85, +90 533 151 50 42
bilgi@egitimyayinevi.com

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sevkiyat@egitimyayinevi.com

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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Türkiye-Körfez İlişkileri

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Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Editör hatları: +90 533 151 50 42, +90 507 151 50 43
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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GÜLEN ÖZDEMİR
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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DR. ÖĞR. ÜYESİ MÜSLÜM ÖZTÜRK

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Dr. Öğr. Üyesi Müslüm Öztürk

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
Sayfa Tasarımı: Kübra Konca Nam
Kapak Tasarımı: Eğitim Yayınevi Grafik Birimi

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bilgi@egitimyayinevi.com

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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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KAPSAYICI ÖRGÜTLER

DR. ÖĞR. ÜYESİ SELVİ VURAL
PROF. DR. FÜSUN ÇINAR ALTINTAŞ

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Dr. Öğr. Üyesi Selvi Vural, Prof. Dr. Füsun Çınar Altıntaş

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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KURUM İÇİ HALKLA İLİŞKİLER

VE UYGULAMA ÖRNEĞİ

TUUBA KULAKSIZ

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yayınevi

Kurum İçi Halkla İlişkiler ve Uygulama Örneği

Tuuba Kulaksız

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
Sayfa Tasarımı: Kübra Konca Nam
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Santral: +90 332 351 92 85
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bilgi@egitimyayinevi.com

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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"Testinin İçinde Ne Varsa Dışına O Sızar..."

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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EDİTÖR: DR. NESLİHAN YOLÇU CENGİZ

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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İNGİLİZCE ÖĞRETİMİNDE HARMANLANMIŞ VE YÜZ YÜZE ÖĞRENME:

AKADEMİK BAŞARI VE DOYUM

DR. YILMAZ KILAVUZ
PROF. DR. KEMAL DURUHAN

EĞİTİM
yayınevi

İNGİLİZCE ÖĞRETİMİNDE HARMANLANMIŞ VE YÜZ YÜZE ÖĞRENME: AKADEMİK BAŞARI VE DOYUM

Dr. Yılmaz Kılavuz, Prof. Dr. Kemal Duruhan

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

Kaynakça

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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İLKOKULDA
MATEMATİK OKURYAZARLIĞI:

OKURYAZARLIK TEMELLİ SORULARLA ÖĞRETİM

Esra CİLVEZ KAYA
ORCID: 0000-0002-5869-1364

Doç. Dr. Tayfun TUTAK
ORCID: 0000-0002-0277-6377

EĞİTİM
yayınevi

İLKOKULDA MATEMATİK OKURYAZARLIĞI:
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Esra Cilvez Kaya, Doç. Dr. Tayfun Tutak

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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bilgi@egitimkitabevi.com

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yayınevi

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Tamer Yardım

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

KAYNAKÇA

Yararlanılan Kitaplar:

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İŞLETMELERDE GIDA STANDARDİZASYONU:

KAVRAMSAL, TARİHSEL VE KURUMSAL BİR İNCELEME

DR. ÖĞR. ÜYESİ ORHAN POLAT

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yayınevi

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Dr. Öğr. Üyesi Orhan Polat

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Nergiz Vural, Prof. Dr. Erhan Akın

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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KAYNAKÇA

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Bab-ı Ali Evrak Odası (BEO)
BEO, 636/47637, 26 Nisan 1311; BEO, 919/68868, 24 Şubat 1312.
Cevdet Maarif (C. MF.)
C. MF., 104/5164, 5 Receb 1199; C. MF., 50/2481, 6 Muharrem 1207.
Dâhiliye Mektubî (DH. MKT.)
DH. MKT., 1590/39, 21 Kanunusani 1304; DH. MKT., 1601/101, 4 Receb 1304; DH. MKT., 1787/2, 19 Teşrinisani 1306.
Dâhiliye Hapishaneler Müdüriyeti (DH. MB. HPS.)
DH. MB. HPS., 26/19, 14 Ağustos 1329.
Dâhiliye Muamelat (DH. TMIK. M.)
DH. TMIK. M., 70/63, 21 Nisan 1315.
Haritalar (HRT.h.)
HRT.h., 2116.
İrade Dâhiliye (İ. DH.)
İ. DH., 1120/87564, 17 Kanunuevvel 1304; İ. DH., 1203/94179, 5 Teşrinisani 1306; İ. DH., 458/30401, 12 Zilhicce 1276.
İrade Şura-yı Devlet (İ. ŞD.)
İ. ŞD., 81/4840, 15 Temmuz 1302.
Maarif Nezâreti Mektubî Kalemi (MF. MKT.)
MF. MKT., 375/1, 2 Teşrin-i Evvel 1313.
Maliye Nezareti Emlak-ı Emiriyye Müdüriyeti (ML. EEM.)
ML. EEM., 860/17, 21 Şubat 1325.
Meclis-i Vâlâ (MVL.)
MVL., 692/14, 27 Teşrinievvel 1280.
Şura-yı Devlet (ŞD.)
ŞD., 3206/21, 4 Nisan 1288; ŞD., 2675/13, 22 Kanun-i Sani 1312.
Yıldız Askeri Maruzat (PRK. ASK.)
PRK. ASK., 74/28, 24 Temmuz 1307.
Yıldız Hususi Maruzat (Y. A. HUS.)
Y. A. HUS., 286/71, 5 Kanunuevvel 1309.
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ZB., 418/14, 24 Şubat 1308.

İstanbul Büyükşehir Belediyesi Atatürk Kitaplığı
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Dahiliye Nezareti Mebani-i Emiriyye ve Hapishaneler İdaresi: BOA. DH. MB. HPS. 85/80, H. 04/06/1330; BOA. DH. MB. HPS. 86/13, H. 18/09/1330; BOA. DH. MB. HPS. 90/47, H. 23/06/1332; BOA. DH. MB. HPS. 45/5, H. 05/06/1333; BOA. DH. MB. HPS.108/22, H. 16/11/1335; BOA. DH. MB. HPS. M. 6/2, H. 05/07/1332; BOA. DH. MB. HPS. 89/63, H. 25/03/1332; BOA. DH. MB. HPS. 85/64, H.22/04/1330; BOA. DH. MB. HPS. 158/55, H. 29/05/1335; BOA. DH. MB. HPS.M. 10/52, H. 25/03/1332; BOA. DH. MB. HPS. M. 32/66, H. 27/04/1336.

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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EĞİTİM yayınevi

Yayınevi Türkiye Ofis:
Konya: Eğitim Yayınevi Tic. Ltd. Şti., Fevzi Çakmak Mah. 10721 Sok. B Blok, No: 16/B, Safakent, Karatay, Konya, Türkiye
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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ihtiyacını, nitelikli üretimi destekleyen stratejik bir zemin olarak görmeleri ve bu alanı gözetmeleri faydalı olacaktır. Liderlik vizyonu, çalışanların kendi içsel nizamlarını kurmaları için gereksinim duydukları o 'yekpare anları' (Tanpınarvari) teşvik eden, otonomi temelli bir güven kültürünün inşasına odaklanabilir.

4) **Bireysel Dönüşüm ve Bilişsel Esneklik Eğitimleri:** Çalışanların, kontrol dışı gelişen izolasyon süreçlerini bilinçli tek başınalık pratiklerine dönüştürebilmeleri amacıyla; bilişsel esneklik temelli kurumsal destek mekanizmalarının devreye alınması faydalı olabilir. Bu süreçte tek başınalık hali, bir 'eksiklik' yerine 'yüksek odaklanma potansiyeline sahip bir zaman dilimi' olarak yeniden çerçevelenebilir (bilişsel yeniden düzenleme).
5) **Nöro-Çeşitlilik ve Bireysel Farklılıkların Gözetilmesi:** Örgütsel verimlilik arayışında 'tek tip çalışan' varsayımından uzaklaşılması; bireysel farklılıkların birer potansiyel olarak değerlendirilmesine olanak tanıyabilir. Özellikle bilişsel açıdan farklı hassasiyetlere sahip bireylerin (nöroçeşitlilik) müstakil çalışma alanlarına duyabileceği gereksinimlerin gözetilmesi, bu hassasiyetlere uygun kişiselleştirilmiş çözümler sunulması yoluyla kurumsal performansın desteklenmesi mümkün görünmektedir.

Sonuç olarak, iş yerinde sürdürülebilir bir performans; sadece fiziksel sınırların kaldırılmasıyla değil, bireyin kendi 'zihinsel nizamını' kurabileceği sessiz alanların sisteme entegre edilmesiyle daha olası görünmektedir. Bu çalışma, tek başınalığın kurumsal sosyal ağın bir alternatifi olmadığını, aksine bilişsel restorasyon yoluyla bu ağı besleyen stratejik bir sığınak işlevi gördüğünü ileri sürmektedir. Geleceğin organizasyonları, çalışanlarını sadece sosyal birimler olarak değil, derin düşünme kapasitesine sahip 'zihinsel simyacılar' olarak konumlandırmanın verimlilik çıktılarını olumlu etkileyebileceğini göz önünde bulundurmalıdır

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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bağlara ilişkin veriler, medreselerin aynı zamanda barınma, istihdam, sosyal kabul ve statü üretim mekânları olduğunu göstermektedir. Özellikle engellilik kayıtlarının dışlayıcı bir dille değil, olağan tanımlayıcı unsurlar arasında yer alması, Osmanlı taşra toplumunda medrese çevresinin kapsayıcı karakterine işaret etmektedir.

Sonuç olarak bu çalışma, Aydın Güzelhisarı örneği üzerinden Osmanlı taşra medreselerini, merkeziyetçi ve tek boyutlu yaklaşımların ötesinde; dinamik, çok işlevli ve toplumsal dokuyla derinlemesine bütünleşmiş kurumlar olarak yeniden tanımlamaktadır. Bu yönüyle çalışma, yalnızca Aydın Güzelhisarı medreselerinin tarihine değil; Osmanlı taşra eğitim sisteminin genel karakterinin yeniden değerlendirilmesine imkân tanıyan güçlü bir örnek olay incelemesi niteliği taşımaktadır.

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tedbirler almak zorunda kalmıştır. Kahve getiren gemilerin uğradığı İzmir, Kuşadası, Çeşme ve Sakız gibi yerlerin mütesellim, muhafız, voyvoda, gümrükçü, kadı ve naip gibi yetkililerine fermanlar göndermiş ve gelen kahvenin İstanbul'a gönderilmesini emretmiştir. Fermanlar gereği İzmir ve diğer yerlerde mahzenlerde kahve aranmış ve ele geçirilen ürünler İstanbul'a gönderilmiştir.

İzmir ve çevresindeki gümrüklerde kahvenin vergilendirilmesi konusu ihtilaflara neden olmuştur. Vergi ödemek istemeyen yabancı tüccarlar ve Osmanlı gümrük memurları arasındaki ihtilaflara ilgili devletlerin diplomatları da karışmıştır. Yabancı tüccarlar ve tabi oldukların devletlerin diplomatik temsilcileri ahitnamelere dayanarak kahve vergisinden kaçınmak istemiştir. Diğer taraftan vergi kaçırma peşinde olan Osmanlı tebaası Rum ve Ermeni tacirler Rusya ve İngiltere gibi devletlerin bayrakları altında ticaret yaptıklarını iddia ederek İzmir gümrüğünde vermeleri gereken kahve vergisini ödemek istememiştir. Yine bazı Müslüman tüccarlar Mısır'dan aldıkları kahveyi yabancı ortakları adına kaydettirmekte, İzmir ve çevresine getirerek vergi vermeden fahiş fiyatlarla piyasaya sürmekteydi.

Bütün kaçakçılık ve yolsuzluk yöntemlerinin önüne geçerek kahve ticaretini kontrol altında tutmak isteyen Babıali, konuyla ilgili olarak İzmir ve çevresine çok sayıda emir göndermiştir. Fermanlar gereği İzmir'de depo ve mahzenlerde arama yapılmış, bulunan kahve el konularak İstanbul'a gönderilmiştir. Vergi uygulamalarında ahitname, ferman ve kurallara uyma konusunda İzmir ve çevrenindeki gümrüklerde bulunan Osmanlı memurları uyarılmıştır.

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Aşiret Faktörü: Konar-göçer Türkmen aşiretleri (Yörükler), sistemin en kırılgan halkasını oluşturmuştur. Vergi kaynağı olarak görülen bu gruplar, mültezim baskısı ve idari boşluklar nedeniyle sisteme entegre edilememiş; aksine birer asayiş sorununa dönüşerek maliyenin istikrarını bozmuştur.

Tasfiyenin Dinamiği: Malikâne sisteminin kaldırılması, İstanbul'dan gelen soyut bir reform değil; Ahmet Bey'in ölümüyle doğan otorite boşluğunun, Mısır işgali tehdidinin ve halkın şikâyetlerinin zorunlu kıldığı bir "kriz yönetimi" hamlesidir. "Yed-i Vâhid" sistemine geçiş, devletin bölgedeki mali egemenliğini yeniden tesis etme girişimidir.

Nihayetinde Adana örneği; Osmanlı taşra idaresinin, katı kurallar manzumesi değil; yerel güçler, coğrafi şartlar ve ekonomik krizler karşısında sürekli şekil değiştiren, esnek ve pragmatik bir "pazarlık rejimi" olduğunu ortaya koymaktadır.

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Sonuç olarak II. Beyazıt Camii ve Külliyesi örneği, onarım ve bakım faaliyetlerinin yalnızca mimari sürekliliği sağlamakla sınırlı olmadığını; aynı zamanda kurumsal dönüşümü, kamusal alanın yeniden tanımlanmasını ve vakıf temelli mekânsal organizasyonun aşamalı çözülüşünü izlemeye imkân tanıdığını göstermektedir. Yapılar korunmuş; kubbeler ve minareler onarılmış, meydan temizlenmiş ve yollar düzenlenmiştir. Ancak bu müdahalelerle birlikte külliyeyi bir bütün hâlinde ayakta tutan işlevsel ve kurumsal bağlar zayıflamış; her bir yapı birimi, farklı idari ve toplumsal ihtiyaçlar doğrultusunda yeniden tanımlanmıştır.

Arşiv belgelerinde izlenen keşifler, masraf tabloları ve idari yazışmalar, külliyenin zaman içinde tekil ve bütüncül bir vakıf organizasyonu olarak değil; farklı idari aktörlerin müdahale ettiği, teknik ve mali açıdan parçalı bir mekânsal sistem olarak ele alındığını ortaya koymaktadır. Bu süreçte cami ibadet işlevini sürdürmüş; ancak onu çevreleyen birimler ve dış mekân, giderek vakıf mantığından uzaklaşarak şehir idaresinin doğrudan tasarrufuna girmiştir. Dolayısıyla Beyazıt Külliyesi, klasik külliye-merkezli mekânsal organizasyondan modern kamusal alan düzenine geçişin ani ve dramatik bir kopuşla değil; onarım, düzenleme ve yeniden işlevlendirme pratikleri üzerinden izlenebilen uzun erimli, katmanlı ve kurumsal süreklilikler içinde gerçekleştiğini belgeleyen güçlü bir tarihsel örnek olarak değerlendirilebilir. Bu yönüyle çalışma, Osmanlı şehir mekânında kamusallığın modernleşmesini açıklamak için mimari tipolojiler kadar, idari ve teknik belgelerin de vazgeçilmez bir analitik kaynak sunduğunu göstermektedir.

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YÜZDELER KONUSUNUN PROBLEME DAYALI ÖĞRETİMİNİN APOS TEORİSİNE GÖRE DEĞERLENDİRİLMESİ

Funda BAYRAKTAR
ORCID: 0000-0001-8075-4811

Doç. Dr. Tayfun TUTAK
ORCID: 0000-0002-0277-6377

EĞİTİM
yayınevi

YÜZDELER KONUSUNUN PROBLEME DAYALI ÖĞRETİMİNİN APOS TEORİSİNE GÖRE DEĞERLENDİRİLMESİ

Funda Bayraktar, Doç. Dr. Tayfun Tutak

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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YAPAY ZEKA VE SİNEMA

Film Endüstrisinde Yapay Zeka Uygulamaları

YAZAR: ZAMİNA HUSEYNOVA

EDİTÖR: DOÇ. DR. BURAK TÜRTEN

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yayınevi

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Zamina Huseynova

Editör: Doç. Dr. Burak Türten

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
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Dijital Okuryazarlığın Rolü

Dr. Mehmet ÖZGEN

Ankara, 2026

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yayınevi

YÖNETİMDE KARAR DESTEK ve İŞ ZEKÂSI SİSTEMLERİ
Dijital Okuryazarlığın Rolü

Dr. Mehmet Özgen
Orchid ID: 0000-0002-9584-2096

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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DOÇ. DR. BİROL UBAY

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yayınevi

ULUSLARARASI VERGİLEME ÜZERİNE GÜNCEL TRENDLER
Doç. Dr. Birol Ubay

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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+90 332 351 92 85, +90 533 151 50 42
bilgi@egitimyayinevi.com

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sevkiyat@egitimyayinevi.com
E-Ticaret: +90 553 950 50 37

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
+90 332 499 90 00
bilgi@egitimkitabevi.com

İnternet Satış: www.kitapmatik.com.tr
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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yayınevi

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Mert Can Tekeler, Semra Aktaş Polat

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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TÜRKİYE'DE SİYASAL İDEOLOJİNİN DİLİ:

Seçim Afişleri ve Beyannameler Üzerinden Bir Söylem Analizi

(1950–1980)

DR. AYŞE ÇELİKBAŞ AYKUT
DOÇ. DR. KADRİYE KOBAK

EĞİTİM
yayınevi

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Dr. Ayşe Çelikbaş Aykut, Doç. Dr. Kadriye Kobak

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
Sayfa Tasarımı: Kübra Konca Nam
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TÜRKİYE'DE SİYASAL İDEOLOJİNİN DİLİ: SEÇİM AFİŞLERİ VE BEYANNAMELER ÜZERİNDEN BİR SÖYLEM ANALİZİ (1950–1980)
Dr. Ayşe Çelikbaş Aykut, Doç. Dr. Kadriye Kobak
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İnternet Satış: www.kitapmatik.com.tr
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Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
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DR. OĞUZHAN GÖKSEL

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Editör: Prof. Dr. Müjdat Avcı

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Dr. Zehra Sevim Adıgüzel

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Uygulama Rehberi ve Güvence Perspektifiyle

Dr. Olcay Akçin

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yayınevi

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Dr. Olcay Akçin

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
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TARİH KİMLİK VE STELA'LAR

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TARİH KİMLİK VE STELA'LAR

Nuri Demirel

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
Sayfa Tasarımı: Kübra Konca Nam
Kapak Tasarımı: Eğitim Yayınevi Grafik Birimi

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DR. MERVE NARTA
PROF. DR. İSMAİL ÇEVİŞ

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yayınevi

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Dr. Merve Narta, Prof. Dr. İsmail Çeviş

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Sena KAPLAN
ORCID: 0009-0003-3249-0876

Doç. Dr. Tayfun TUTAK
ORCID: 0000-0002-0277-6377

EĞİTİM
yayınevi

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Sena Kaplan, Doç. Dr. Tayfun Tutak

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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+90 332 351 92 85, +90 533 151 50 42
bilgi@egitimyayinevi.com

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sevkiyat@egitimyayinevi.com

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
+90 332 499 90 00
bilgi@egitimkitabevi.com

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EĞİTİM YAYINEVİ GRUBU

This study makes a noteworthy contribution by addressing scheduling components—often treated separately in the literature—from an integrated perspective. The findings indicate that AI-based scheduling approaches provide practically applicable and effective solutions for modern communication and computing systems.

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optimizasyon yöntemleri kullanılabilse de modelin doğruluk değerinde düşüşler meydana gelebilmektedir. Bu dezavantaj için doğruluk değer kaybını en az etkileyecek çözüm yöntemleri bulunmalıdır.

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YOLO algorithms have produced effective results in different usage areas. This situation demonstrates the usability of deep learning algorithms in autonomous vehicles.

Unmanned Aerial Vehicles Target Detection

In the study conducted by Saygılı and Özmen [23], object detection was performed by looking at the suitability of learned visuals with images taken by UAV using SSD MobileNet, which is a convolutional neural network model among deep learning models. In this study, a 69.45% mAP average precision value was obtained.

Using an unmanned aerial vehicle, object detection was performed by descending with movement in the X, Y, Z axes. Unlike traditional image processing techniques, moving target detection was performed using deep learning models. Faster R-CNN was used as the deep learning model. Vehicle classification and pedestrian detection processes were carried out to find solutions to some problems in traffic using a camera on the unmanned aerial vehicle. Using YOLOv5, one of the object detection algorithms used in deep learning, the mean average precision value (mAP) was found to be 0.9 [24].

Images taken from the unmanned aerial vehicle tried to detect objects that are circular in shape and red in color. Image processing techniques were realized from the OpenCV module in the Python application. Here, color thresholding and additional filtering methods were used [25].

CONCLUSION

The process of object detection from images falls into the field of computer vision. Significant developments have occurred in object detection with the combination of computer vision and deep learning algorithms. First of all, before giving the raw image we have to the method we want to use, it is brought to a usable state using image processing techniques. Then, the stage of target recognition operations from the image is started. Target detection from images and object recognition operations are used in many areas such as autonomous vehicles, unmanned aerial vehicles, thermal cameras, and military vehicles. Various methods are used in object detection. Traditional methods such as Haar, SIFT, HOG can be used. The use of deep learning algorithms from developing modern methods appears with high accuracy rates. CNN, two-stage R-CNN, Fast R-CNN, Faster R-CNN models and single-stage methods such as YOLO, SSD are used in target detection and object recognition operations in deep learning models. Among these algorithms, YOLO and SSD models stand out compared to other models in terms of processing speed. However, negativities experienced in operations such as challenging weather conditions and detection of small objects in high regions are disadvantages. Very low resolutions or noise can negatively affect object detection operations. Improvements should be made in the detection and recognition of small objects in unmanned aerial vehicles and autonomous vehicles. Improvements should also be made regarding the difficulties experienced in object recognition systems in cameras, especially in challenging weather conditions.

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threats demonstrate that material-based solutions to asymmetric threats encountered in the defense industry are becoming increasingly important.

Looking ahead, the role of CFRP in the defense industry is expected to evolve from single-function structural material to multifunctional, smart, and integrated systems. The development of nanocomposites, smart coatings, and hybrid structures enables the integration of features such as structural health monitoring, electromagnetic control, and ballistic resistance within a single material system. In addition, sustainability and recycling issues have become an integral part of long-term strategic planning, especially for the defense industry.

In summary, the importance of CFRP in the defense industry is not limited to enhancing the performance of existing platforms. These materials are among the fundamental building blocks that shape the design philosophy of future defense technologies, support strategic independence, and enable the development of high value-added systems. This compilation aims to provide a comprehensive reference framework for future research and technological developments in CFRP-based defense applications.

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Number of Bottles Required = 1500 grams / 20 grams/bottle = 75 bottles

Assuming 40% efficiency, the number of bottles to be used will be approximately 190.

If a low efficiency of 20% is assumed, the number of PET bottles to be used will be around 375.

RESULTS AND DİSCUSSİONS

This research theoretically investigates the development of carbon fiber-like composite fibers from waste PET material. The study evaluates the fundamental suitability of the processes to be employed in practice and the required quantity of material. For instance, calculations indicate that to create a composite sheet measuring approximately 1 square meter in area and 1 mm in thickness, between 180 and 400 0.5-liter PET bottles would need to be processed under realistic conditions. This calculation takes into account the low carbonization yield (20-40%), which is a significant challenge in producing carbon fiber from PET [1, 16].

According to theoretical expectations, the incorporation of sulfonic acid (-SO_3H) groups into the PET polymer chains through sulfonation will suppress the material's melting behavior and enhance its thermal stability. This aligns with studies demonstrating high stabilization efficiency achieved through sulfonation in other thermoplastic polymers like polyethylene [4, 5]. The subsequent conversion of sulfonated PET (S-PET) into fiber form via electrospinning, which has been successfully reported in the literature for both PET [2] and sulfonated polymers [6], is expected to enable the fibers to acquire a highly oriented morphology. This oriented structure is associated with better mechanical performance in electrospun nanofibers [3, 15].

The mechanical properties of the composite fibers obtained after carbonization could theoretically reach or exceed the performance of fibers produced from PET and asphaltene blends, which have been reported to have a tensile strength of ~0.29 GPa [1]. Furthermore, the presence of sulfonic acid groups, whose confirmation is anticipated via FTIR analysis [6, 9], is expected to further enhance the final mechanical performance of the composite material by improving the interfacial adhesion between the fiber and the polymer matrix [8]. In conclusion, this theoretical framework provides an energy-efficient and environmentally friendly roadmap for converting waste PET into high- value-added composite materials.

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Bu algoritmalar genellikle:

- Girdi verisinin analizi,
- Özellik çıkarımı veya anomali tespiti,
- Modelin değerlendirme yapması,
- Belirli eşik değerlerine göre karar verilmesi,
- Çıktı üretimi

şeklinde ilerler.

Yapay zeka tabanlı yangın algoritmaları, veri yoğun ortamlarda hızlı karar verebilmek üzere tasarlanmış olup; zaman serisi analizi, görüntü işleme ve sınıflandırma yöntemleriyle desteklenmektedir [1], [4], [6].

SONUÇLAR VE TARTIŞMALAR

Yapay zeka teknolojilerinin yangınla mücadele alanında kullanımı, hem erken tespit hem de karar destek mekanizmaları açısından önemli bir dönüşüm oluşturmaktadır. Çalışmada sunulan teorik incelemeler, makine öğrenmesi, derin öğrenme, IoT tabanlı sensör ağları ve bilgisayarlı görü yöntemlerinin yangın tespitini hızlandırdığını, yayılımın tahmin edilmesine katkı sağladığını ve müdahale stratejilerinin daha verimli şekilde planlanmasına imkan tanıdığını göstermektedir. Bu yöntemler sayesinde, geleneksel gözlem temelli yaklaşımlara kıyasla daha hızlı reaksiyon verme, geniş alanları aynı anda izleme ve çok kaynaklı veri üzerinden yüksek doğrulukta analiz yapabilme olanakları ortaya çıkmaktadır.

Tartışma kapsamında, yapay zeka tabanlı sistemlerin özellikle sensör verileri, uydu görüntüleri ve kamera kayıtlarının bütünleşik olarak analiz edilmesinde büyük potansiyel taşıdığı görülmektedir. Bununla birlikte, veri kalitesi, hesaplama maliyeti, gerçek zaman gereksinimi ve modellerin açıklanabilirliği gibi çeşitli zorluklar uygulama sürecinde öne çıkmaktadır. Çalışmanın genel değerlendirmesine göre, bu teknolojilerin sahada etkin biçimde kullanılabilmesi için hem teknik altyapının güçlendirilmesi hem de algoritmaların daha güvenilir, hızlı ve ölçeklenebilir hale getirilmesi gerekmektedir.

Gelecek çalışmalar incelendiğinde, derin öğrenme tabanlı hibrit yayılım modelleri, drone destekli izleme sistemleri, geniş ölçekli IoT sensör ağları, bulut bilişim ve dijital ikiz uygulamalarının yangınla mücadele alanında önemli geliştirme fırsatları sunduğu görülmektedir. Özellikle dronlar ve uydu tabanlı görüntüleme teknolojileriyle yapay zekanın entegrasyonu, gerçek zamanlı ve yüksek doğrulukta yangın haritalarının oluşturulmasını sağlayacaktır. Benzer şekilde, kenar bilişim (Edge AI) çözümleri, verilerin sahada işlenmesine imkan tanıyarak gecikmeleri azaltacak ve erken uyarı sistemlerinin daha güvenilir hale gelmesine katkıda bulunacaktır.

Sonuç olarak, bu çalışma yangınla mücadelede yapay zeka yöntemlerinin hem mevcut durum hem de geleceğe yönelik gelişme potansiyeli açısından kritik bir role sahip olduğunu ortaya koymaktadır. Yapay zekanın hızlı, ölçeklenebilir ve çok kaynaklı veri işleme yeteneği, afet yönetiminin geleceğini şekillendiren temel unsurlardan biri haline gelmiştir. Disiplinler arası iş birlikleri ve teknolojik yenilikler ile birlikte, yapay zeka destekli yangın yönetim sistemlerinin daha güvenli, daha hızlı ve daha etkin stratejiler sunması beklenmektedir.

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- Bounding-box çıkarımı: "Nesne görüntünün neresinde?"
- Segmentasyon (opsiyonel): Nesnenin sınırlarını piksel olarak çıkarma.

YOLOv8'in avantajı tek geçişte (You Only Look Once) hızlı ve gerçek zamanlı tespit yapar.

Radar ve LiDAR sensörlerinin birlikte değerlendirilmesi ise özellikle düşük görüş koşullarında kritik rol oynayacaktır; bu amaçla radarın Doppler bilgisi, LiDAR nokta bulutu kümeleri ile birleştirilerek hareketli hedeflerin sağlam ve kararlı şekilde tespit edilmesi hedeflenmektedir. KBRN tehditleri için tasarlanan gaz sensörü modülünde ise eşik tabanlı bir anomali algılama sistemi kullanılacak ve ortamda ani gaz artışları uyarı olarak işlenecektir.

Robotun otonom hareket edebilmesi için navigasyon ve rota planlama sisteminin de bütünsel bir şekilde tasarlanması gerekmektedir. Bu doğrultuda, robotun bilinmeyen bölgelerde haritalama yapabilmesi amacıyla LiDAR–IMU tabanlı LOAM SLAM algoritması kullanılacak; küresel rota planlama için A* algoritması (küresel rota planlayıcı), dinamik engellerden kaçınmak için ise DWA (Dynamic Window Approach) (yerel engel kaçınma algoritması) tercih edilecektir.

Çoklu robot görevlerinde UGV–UAV koordinasyonunun sağlanabilmesi için UWB tabanlı konum paylaşımı ve eş zamanlı harita birleştirme yaklaşımının uygulanması planlanmaktadır. Bu bütünleşik yapı sayesinde robotun hem bilinmeyen ortamlarda harita çıkarabilmesi hem de algıladığı tehditlere karşı güvenli ve verimli bir rotayı otomatik olarak oluşturabilmesi hedeflenmektedir.

SONUÇLAR VE TARTIŞMA

Bu çalışma, saha taraması ve tehdit tespiti görevlerinde otonom tespit robotlarının performansını artırmak amacıyla çoklu sensör füzyonuna dayalı bir sistemin tasarımını ve deneysel uygulamasını sunmaktadır. Kurulan sistem, LiDAR, EO/IR kamera, radar, GNSS/IMU ve gaz sensörleri gibi farklı sensörleri entegre ederek hem sabit hem de hareketli tehditleri farklı çevresel koşullarda tespit edebilmektedir. Sensörlerden elde edilen verilerin ön işleme ve füzyon süreçleri sayesinde tek bir sensöre bağımlı kalınmadan daha güvenilir ve doğru çevresel bilgi sağlanmıştır.

Deneysel prototip, düz zemin, engebeli arazi, dar geçitler, düşük ışık ve sisli koşullar gibi çeşitli senaryolarda test edilmiştir. Elde edilen sonuçlar, LiDAR ve radar entegrasyonunun özellikle düşük görüş koşullarında hareketli hedef tespitinde kritik bir rol oynadığını, EO/IR kameraların ise görsel tehditlerin tanınmasında yüksek doğruluk sağladığını göstermiştir. GNSS–IMU ve SLAM tabanlı navigasyon sistemi, robotun bilinmeyen ortamlarda haritalama yapabilmesini ve güvenli rota planlamasını mümkün kılmıştır. KBRN sensörleri ile gerçekleştirilen gaz algılama modülü, anomali tabanlı uyarılar ile çevresel tehditlerin hızlı şekilde tanımlanmasını sağlamıştır.

Sonuç olarak, tasarlanan çoklu sensörlü sistem, farklı arazi ve çevre koşullarında otonom robotun hem saha taraması hem de tehdit tespit görevlerini güvenilir ve etkin biçimde yerine getirmesine imkân tanımaktadır. Sistem, düşük maliyetli, modüler ve farklı robot platformlarına uyarlanabilir bir altyapı sunmaktadır. Bu çalışma, otonom robotların değişken çevresel koşullarda performansını değerlendirmek ve gelecekte çoklu robot işbirliği ile görev başarımını artırmak için bir temel oluşturacaktır.

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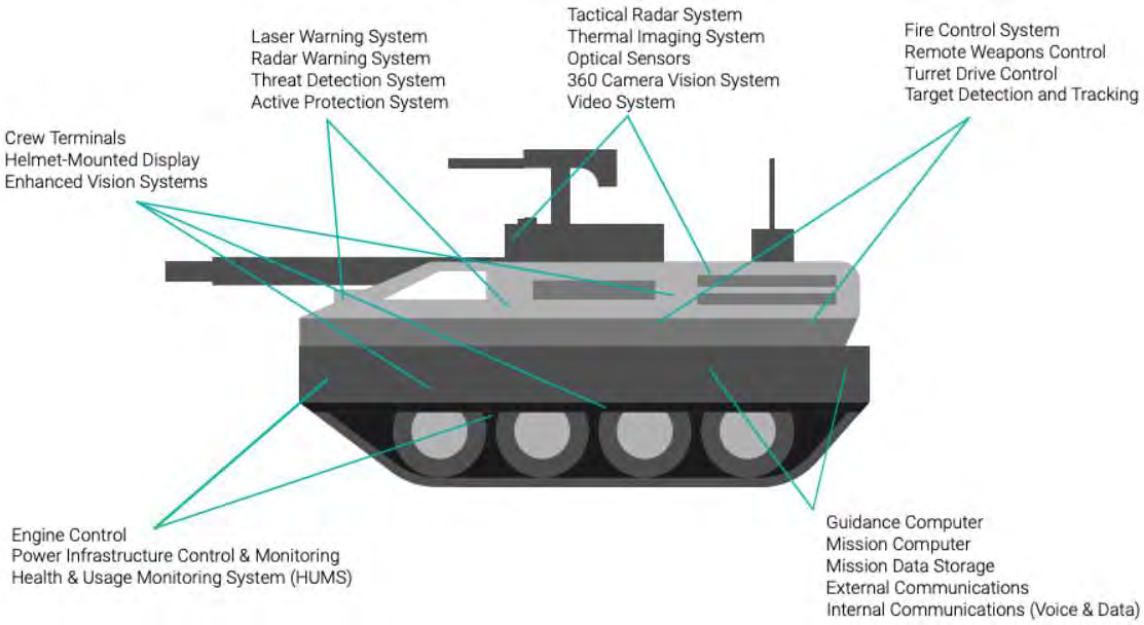
Sağlanan avantajlar arasında düşük ısı/akustik imza ile keşif güvenliği ve düşman tanımada süreklilik sayılabilir[20][33]. Yüksek tork kontrollü tahrik, araç çevikliğini artırmaktadır. Açık mimari standartları sayesinde farklı sistem modülleri birbiriyle uyumlu çalışmaktadır[2][3]. Yapay zekâ destekli algoritmalar, komuta-merkezi karar süreçlerine değerli bilgi akışı sağlamaktadır[12]. Özetle, bu teknolojiler muharebe taktiklerini güçlendirmekte ve çoklu platform entegrasyonunu kolaylaştırmaktadır.



Şekil 3. Primary systems in a battle tank

Gelecekteki çalışmalar şunları içerebilir: Batarya teknolojileri ve yakıt hücrelerinin kullanımı ile enerji yoğunluğunun iyileştirilmesi; otonomluk seviyesinin (TA seviyesi) artırılması ve çoklu araç/sensör sistemleri arası koordinasyonun geliştirilmesi; siber güvenlik ve yapay zekâ tabanlı hataya dayanaklı karar modüllerinin güçlendirilmesi[2][12]. Ayrıca MOSA (Modüler Açık Sistem Yaklaşımı) kapsamında FACE/SOSA standartlarıyla tam uyumlu yazılım platformları geliştirilmelidir. Çoklu araç ve komuta kontrol sistemlerinin entegre çalışması (JADC2 gibi) için gerçek zamanlı veri füzyonu ve yapay zekâ destekli muharebe yönetim sistemleri daha da önem kazanacaktır[1][10]. Sonuç olarak, otonom kara platformlarında elektrifikasyon ve yazılım entegrasyonu, yüksek performanslı ve çok yönlü savunma çözümleri sunmakta olup, bu alanda yapılacak mühendislik çalışmaları stratejik değerini sürdürmektedir.

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FNSS aracılığıyla ısı yönetimi için makine öğrenimi teknolojileri geliştirme planları mevcuttur. Sinir ağları ve takviyeli öğrenmenin çarpan optimizasyonuyla entegrasyonu da gelecekteki iş planlarında araştırılabilir. Daha gelişmiş EMS stratejileri ve bunlarla yapay zekanın entegrasyonu da önerilmektedir.[27]. Ayrı olarak, araç yardımcı sistemlerinin (Torpedo Trophy, kule tahrikleri vb.) elektrifikasyonu ve bu sistemler için akıllı enerji yöneticileri (örn. Leopard 2A8 SSPDB) önem kazanmaktadır[30][28]. Gelecekte, daha büyük kapasiteli ünitelerin kullanımını veya hidrojen elektrolizi veya yakıt hücreleri gibi modern teknolojiler kullanan alternatif şarj altyapılarının geliştirilmesini görebiliriz. Ayrıca, batarya kimyasındaki gelişmeler sayesinde tamamen elektrikli araçların yaygın olarak benimsenmesine de tanık olabiliriz. Bu çalışmada ele alınan simülasyon ve kontrol yöntemleri, paletli hibrit araçların performansını artırmada önemli bir rol oynamakta ve pratik testler ile otonom sürüş entegrasyonunu gelecekteki araştırmalar için bir öncelik haline getirmektedir.

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supervised veya geometrik derin öğrenme teknikleri incelenecektir. Son yıllarda, monoküler kameralardan uzaklık tahmini için sinir ağlarının ve özellikle self-supervised öğrenme yöntemlerinin kullanımı bir eğilim haline gelmiştir (Liang vd., 2022).

6. Geniş Ölçekli Doğrulama: Sistemin performansının gerçek dünya koşullarında, farklı otonom mobil platformlarda (örneğin insansız hava araçları veya Endüstriyel AGV'ler) uzun süreli operasyonel testlerle doğrulanması ve sistemin genelleştirilebilirliğinin artırılması hedeflenmektedir.

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This situation can lead to overheating of the system during high-performance maneuvers. Therefore, EHA design should be addressed not only as a hydraulic but also as a thermal optimization problem.

In this study, Electro-Hydrostatic Actuator (EHA) technology, which plays a critical role in line with the aviation industry's More Electric Aircraft (MEA) vision, was examined comparatively with traditional Servo-Hydraulic (SHA) and Electro-Mechanical (EMA) systems. The analyses performed show that the Power-on-Demand principle offered by EHA systems significantly increases total energy efficiency by minimizing parasitic energy losses caused by continuous pressurization in central hydraulic systems. Additionally, the structural simplification and weight savings achieved by eliminating central pipelines, valve blocks, and reservoirs directly contribute to the aircraft's payload capacity. The modular structure of the system optimizes flight safety and maintenance processes by preventing a fault from spreading to other systems in case of a possible failure. However, it has been determined that the most prominent constraint in front of the widespread use of EHA technology is the thermal management difficulties arising from its closed-loop hydraulic structure. In light of current findings, it is recommended that future studies focus on the development of active cooling systems integrated into the actuator body and high-heat-resistant hydraulic fluids. Consequently, it is foreseen that with the overcoming of thermal bottlenecks, EHA technology, offering high power density and reliability, will become the primary actuator standard in future aviation and space systems.

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bulgular, sürü yapılarının tekil platformlara kıyasla daha geniş alan kapsaması sağladığını ve görev başarımını artırabildiğini göstermektedir.

Mevcut çalışmalar incelendiğinde, dağıtık kontrol mimarilerinin merkezi kontrol yaklaşımlarına kıyasla daha yüksek hata toleransı sunduğu dikkat çekmektedir. Merkezi sistemlerde tek bir kontrol biriminin devre dışı kalması tüm görevin başarısızlıkla sonuçlanmasına neden olabilmekteyken, dağıtık mimarilerde bu risk önemli ölçüde azalmaktadır. Simülasyon tabanlı araştırmalar, sürü içerisindeki bazı ajanların kaybı veya iletişim dışı kalması durumunda dahi sistemin görevine sınırlı performans kaybı ile devam edebildiğini ortaya koymaktadır. Bu durum, sürü sistemlerinin görev sürekliliği açısından önemli bir avantaj sunduğunu göstermektedir.

Literatürde yer alan dinamik görev senaryolarına yönelik çalışmalar, sürü yapılarının çevresel değişimlere ve görev önceliklerine hızlı biçimde uyum sağlayabildiğini vurgulamaktadır. Görevlerin önceden sabit olarak tanımlandığı statik yapılar yerine, anlık duruma göre yeniden planlama yapabilen dağıtık ve hibrit yaklaşımların daha başarılı sonuçlar verdiği bildirilmektedir. Bu bağlamda, sürü sistemlerinin adaptasyon yeteneği modern harp ortamlarının gereksinimleriyle yüksek düzeyde örtüşmektedir.

Haberleşme altyapısının sürü performansı üzerindeki belirleyici rolü, literatürde sıklıkla vurgulanan bir diğer önemli unsurdur. İncelenen çalışmalarda, haberleşme gecikmeleri, paket kayıpları ve bağlantı kopmalarının sürü içi koordinasyonu doğrudan etkilediği belirtilmektedir. Özellikle yoğun elektronik harp ortamlarında gerçekleştirilen simülasyonlarda, tek bantlı ve merkezi haberleşme yapılarının yetersiz kaldığı görülmektedir. Buna karşılık, çok bantlı ve yedekli haberleşme mimarilerinin, görev başarım oranını anlamlı düzeyde artırdığı rapor edilmektedir. Bununla

birlikte, her ne kadar çok bantlı ve dağıtık haberleşme yaklaşımları dayanıklılığı artırsa da, yüksek veri trafiği ve senkronizasyon gereksinimleri sistem üzerinde ek yükler oluşturmaktadır. Literatürde bu durumun, veri önceliklendirme ve seçici veri paylaşımı mekanizmaları ile dengelenmeye çalışıldığı görülmektedir. Bu yaklaşımlar, kritik kontrol verilerinin zamanında iletilmesini sağlarken, daha düşük öncelikli verilerin ağ üzerindeki yükünü azaltmayı amaçlamaktadır.

Enerji yönetimi ve görev süresi optimizasyonu, otonom sürü sistemlerinin karşılaştığı temel sınırlamalar arasında yer almaktadır. İncelenen çalışmalarda, ajanların sınırlı enerji kaynaklarına sahip olması nedeniyle görev planlama süreçlerinin enerji farkındalıklı olarak ele alınmasının gerekliliği vurgulanmaktadır. Ajanlar arası görev paylaşımı ve yük dengeleme algoritmalarının, sürü genelinde görev süresini uzatabildiği ve operasyonel verimliliği artırabildiği bildirilmektedir.

Son olarak, literatürde tamamen otonom silah sistemlerine ilişkin etik ve hukuki tartışmaların önemli bir yer tuttuğu görülmektedir. Birçok çalışmada, karar alma süreçlerinde insan unsurunun tamamen devre dışı bırakılmasının çeşitli riskler barındırdığı ifade edilmektedir. Bu nedenle insan-denetimli otonomi yaklaşımının, mevcut ve yakın vadeli uygulamalarda daha gerçekçi ve kabul edilebilir bir çözüm olarak öne çıktığı belirtilmektedir. Bu yaklaşım, otonom sürü sistemlerinin sağladığı teknik avantajları korurken, karar süreçlerinde insan kontrolünü muhafaza etmeyi amaçlamaktadır. Genel olarak değerlendirildiğinde, literatürde yer alan çalışmalar otonom sürü sistemlerinin modern harp ortamlarında önemli avantajlar sunduğunu ortaya koymaktadır. Ancak bu sistemlerin etkin ve güvenli biçimde kullanılabilmesi için haberleşme, enerji yönetimi, güvenlik ve etik boyutların birlikte ele alınması gerektiği açıkça görülmektedir.

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user authentication.

- Integration with autonomy and perception remains an open frontier. Many existing systems operate in teleoperation mode, where gestures directly control low-level motion. A more scalable paradigm would use gestures for high-level commands ("go to that region", "inspect this object", "circumnavigate the obstacle"), while onboard autonomy handles local navigation and obstacle avoidance. This integration between human intent and autonomous perception is particularly relevant for UGVs operating in complex, dynamic environments.

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güvenliğine ilişkin matematiksel modeller, göreceli hız ve reaksiyon süresinin çarpışma mesafesi üzerindeki etkisini tanımlamakta ve füzyonlu sistemlerde hata payının azalmasıyla güvenlik seviyesinin yükseldiğini göstermektedir (18).

Önerilen sistem tasarımı doğrultusunda sensör katmanı, ön işleme birimi, füzyon çekirdeği ve yapay zekâ karar modülü içeren modüler mimarinin hem mühendislik olarak uygulanabilir hem de literatürle uyumlu olduğu görülmüştür (12)(19). Sistem çıktılarının tehdit değerlendirme, nesne takibi ve çarpışma önleme gibi görevlerde kullanılabilir olduğu ve gerçek zaman işlem gereksinimlerini karşılayabildiği anlaşılmaktadır. Özellikle FPGA tabanlı çözümler ile 60 FPS seviyesinde gerçek zamanlı füzyon performansı elde edilebilmesi, otonom platformlarda ileri seviye operasyonların mümkün olduğunu göstermektedir (12).

Gelecek çalışmalar açısından, adaptif ağırlıklandırma mekanizmaları, meta-öğrenme tabanlı dinamik füzyon yapıları, dağıtık mimariler, çoklu modalite Transformer çözümleri ve donanım hızlandırıcılar ile optimize edilmiş derin öğrenme modelleri önemli araştırma alanları olarak öne çıkmaktadır (10)(14)(20). Bu alanlarda yapılacak çalışmalar hem mikro ölçekte (İHA, kara araçları, robotik unsurlar) hem de makro ölçekte (stratejik komuta kontrol, istihbarat sistemleri, sınır güvenliği) operasyonel etkinliği artıracaktır.

Bu rapor genel olarak değerlendirildiğinde, çoklu sensör füzyonu ve yapay zekâ tabanlı durumsal farkındalık sistemlerinin modern savunma operasyonlarında yüksek etki yarattığı, karar verme süreçlerini hızlandırdığı ve insan–makine işbirliğini güçlendirdiği sonucuna ulaşılmaktadır. Bu teknolojilerin geliştirilmesi, gelecekte otonom askeri platformların güvenli, hızlı ve etkin bir şekilde kullanılabilmesi için kritik öneme sahiptir.

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örtüşmelerinin çözümlenmesinde kritik bir rol üstlenecek; çok boyutlu spektrum modellemeleri, tehdit analizinin zaman içindeki evrimini görünür kılacaktır [8–11]. Yeniden yapılandırılabilir alıcı–verici mimariler ve gelişmiş sayısal işleme yapıları ise, elektronik destek ve elektronik taarruz işlevlerinin tek platformda bütünleşmesine olanak tanıyarak görev esnekliğini artıracaktır [12–14].

Yarı iletken teknolojilerindeki ilerlemeler, özellikle galyum nitrür tabanlı yüksek güç yükselteçlerinin olgunlaşması, geniş bant elektronik taarruzun etkinliğini önemli ölçüde artırmakta; radarların gelişmiş işaret işleme yöntemlerine rağmen karıştırma ve aldatma sinyallerinin daha gerçekçi ve daha kararlı biçimde uygulanmasını mümkün kılmaktadır [15–17]. Bununla birlikte çoklu platform mimarilerine dayanan dağıtık elektronik harp yapıları, geniş coğrafi alanlarda eşgüdümlü baskılama ve aldatma stratejilerinin geliştirilmesine izin vererek, radar ağlarının bütüncül işleyişine yönelik daha etkili karşı tedbirler sunmaktadır [18–20].

Bu dönüşümün en belirgin hızlandırıcısı yapay zekâ tabanlı karar yapılarıdır. Geniş bant verilerin yüksek hacmi, karmaşık sinyal istatistikleri ve radar davranışındaki hızlı değişimler, klasik işleme yöntemleriyle analiz edilmesi güç yapılar oluşturmaktadır. Yapay zekâ modelleri, bu karmaşıklığın üstesinden gelmek için yüksek boyutlu veri kümelerini işleyebilen güçlü bir hesaplama altyapısı sunmakta; yayıcı kümelendirme, sinyal sınıflandırma, parametre takibi ve tehdit davranışı tahmini gibi görevlerde belirgin üstünlük sağlamaktadır [21–24]. Yapay zekâ destekli elektronik harp sistemlerinin gelecekte yalnızca değerlendirme yapan araçlar olmaktan çıkarak, tehdit davranışını öngören ve karşı tedbiri önceden şekillendiren öngörüsel yapılara dönüşeceği öngörülmektedir [25, 26].

Kuantum temelli algılama yöntemleri ise elektronik harp rekabetini fiziksel düzeyde yeniden tanımlama potansiyeline sahiptir. Dolanıklığa dayalı algılama teknikleri, klasik radarların ulaşmakta zorlandığı sinyal–gürültü seviyelerinde dahi hedef tespitine imkân verebilecek bir çerçeve sunmakta; buna karşılık dolanıklık yapısının bozulmasına yönelik karşı tedbirler, geleceğin elektronik harp stratejilerini kuantum fiziğinin temel ilkelerine kadar derinleştirmektedir [27–29]. Her ne kadar mühendislik sınırlamaları nedeniyle kısa vadede operasyonel uygulamalar sınırlı görünse de, uzun vadede kuantum tabanlı sistemlerin radar–EH dengesini köklü biçimde etkileme potansiyeline sahip olduğu değerlendirilmektedir [30].

Genel olarak değerlendirildiğinde, elektronik harp sistemlerinin evrimi çok katmanlı bir teknolojik bütünleşmeye işaret etmektedir. Geleceğin EH mimarisi; öğrenebilen, uyarlanabilen, otonom karar verebilen, fiziksel katmanlara kadar etki edebilen ve tehdit davranışını öngörebilen sistemlerden oluşacaktır [31–33]. Bu dönüşüm, yalnızca elektromanyetik ortamın dinamiklerine uyum sağlama çabası değil, aynı zamanda elektronik harp ile radar teknolojileri arasında çok daha sofistike, karşılıklı evrime dayalı bir rekabet döngüsünün başlangıcıdır. Bu bağlamda elektronik harp sistemlerinin, geleceğin harekât ortamında hem taktik hem de stratejik düzeyde belirleyici bir rol oynayacağı; bu rolün de mühendislik, doktrin ve konsept düzeyinde yeniden tanımlanacağı açıktır [34–36].

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SONUÇ

Bu raporda, dijital hareketli harita sistemleri üzerinde çalışan yapay zekâ tabanlı İHA/UAV rota optimizasyonu konusu, son yıllarda Türkiye'de ve dünyada yapılmış en az yirmi akademik çalışma ışığında ele alınmıştır. Öncelikle İHA görev ve rota planlama probleminin teorik temelleri, GSP, ARP ve Oryantiring problemleri çerçevesinde açıklanmış; ardından çok amaçlı optimizasyon kavramı ve ε-kısıt yaklaşımı gibi yöntemler tartışılmıştır [1],[3],[9],[14].

Literatür incelemesi, İHA'ların afet yönetimi, bölgesel keşif, kargo teslimatı, tarımsal uygulamalar ve havayolu lojistiği gibi oldukça farklı alanlarda kullanıldığını; ancak bu alanların tamamında rota optimizasyonunun kritik bir rol oynadığını göstermektedir [2],[4],[7],[10],[11],[17]. Çalışmalarda, klasik matematiksel modellerin yanında genetik algoritmalar, parçacık sürü optimizasyonu, karınca kolonisi ve kümeleme tabanlı hibrit yaklaşımlar gibi meta-sezgisel yöntemler yoğun olarak kullanılmaktadır [1]–[4],[7],[14].

Önerilen sistem yapısı, literatürdeki bu farklı yaklaşımları tek bir çatı altında birleştirerek:

- Girdi katmanında dijital harita, hedef ve İHA parametrelerini,
- Ara katmanda çok amaçlı matematiksel modeli ve meta-sezgisel çözüm motorlarını,
- Çıktı katmanında ise görev planları ve rota listelerini

birlikte ele almaktadır. Böylece sistem, hem akademik deneyler hem de gelecekteki gerçek saha uygulamaları için kullanılabilecek esnek ve modüler bir mimari sunmaktadır.

Sonuç olarak, İHA/UAV rota optimizasyonu, yalnızca teknik bir optimizasyon problemi değil, aynı zamanda lojistik verimlilik, afetlere hazırlık, sürdürülebilirlik ve dijital dönüşüm boyutları bulunan çok disiplinli bir araştırma alanıdır. Bu raporda sunulan teorik ve yazılımsal çerçeve, ileride yapılacak tez, makale ve saha projeleri için kapsamlı bir başlangıç noktası niteliğindedir.

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gradyentler çatlak oluşum riskini artırmaktadır [18,21]. Bu bulgular, SLM sürecinde defekt ve mikroyapı kontrolünün ancak çok değişkenli ve bütüncül bir optimizasyon yaklaşımıyla mümkün olduğunu açıkça ortaya koymaktadır [33].

SONUÇ

Bu çalışmada, Selective Laser Melting (SLM) sürecinde metal parçalarda meydana gelen başlıca metalurjik defekt türleri ve bu defektlerin oluşum mekanizmaları, literatürde raporlanan deneysel, teorik ve sayısal çalışmalar ışığında bütüncül bir yaklaşımla incelenmiştir. Elde edilen bulgular, SLM sürecinde defekt oluşumunun tekil bir işlem parametresiyle açıklanamayacağını; lazer gücü, tarama hızı, hatch mesafesi, katman kalınlığı, toz morfolojisi ve termal döngüler arasındaki karmaşık etkileşimlerin ortak bir sonucu olduğunu açıkça ortaya koymaktadır.

Yetersiz birleşme defektlerinin düşük enerji yoğunluğu koşullarında, anahtar deliği porozitesinin ise aşırı enerji girdisine bağlı olarak geliştiği; gaz porozitesinin büyük ölçüde toz kalitesi ve yüzey oksitleriyle ilişkili olduğu görülmüştür. Ayrıca yüksek soğuma hızları ve keskin termal gradyentlerin, sütunsal tane yapılarının oluşumunu teşvik ederek mikroyapısal anizotropiye ve katılaşma çatlaklarına zemin hazırladığı literatür bulguları ile desteklenmiştir. Bu durum, özellikle güvenlik kritik uygulamalarda SLM ile üretilen parçaların mekanik güvenilirliğini sınırlayan temel faktörlerden biri olarak öne çıkmaktadır.

Çalışma kapsamında ele alınan process–structure–property ilişkisi, SLM sürecinde mikroyapı ve mekanik özelliklerin doğrudan erime havuzu kararlılığı ve termal davranışla bağlantılı olduğunu göstermiştir. Sayısal modelleme ve erime havuzu simülasyonları, enerji yoğunluğundaki küçük değişimlerin dahi defekt türü ve dağılımı üzerinde belirleyici etkilere sahip olduğunu ortaya koymaktadır. Bu bağlamda, SLM süreç optimizasyonunun yalnızca deneysel deneme–yanılma yaklaşımlarıyla değil, fizik temelli ve çok değişkenli optimizasyon stratejileriyle ele alınması gerektiği anlaşılmaktadır.

Sonuç olarak bu derleme, SLM sürecinde defekt oluşumuna neden olan temel metalurjik mekanizmaları sistematik bir çerçevede ortaya koyarak literatürdeki dağınık bilgileri bütüncül biçimde sentezlemiştir. Elde edilen değerlendirmelerin, gelecekte gerçekleştirilecek deneysel çalışmalar, gelişmiş süreç izleme sistemleri ve yapay zekâ tabanlı optimizasyon yaklaşımları için sağlam bir bilimsel altyapı sunacağı düşünülmektedir. Bu yönüyle çalışma, SLM teknolojisinin daha kararlı, güvenilir ve endüstriyel ölçekte uygulanabilir hâle getirilmesine katkı sağlamayı hedeflemektedir.

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Precision, Recall, F1-score, görüntü tabanlı tespit için mAP, ikili sınıflandırmalar için ROC–AUC, hata analizleri için confusion matrix, radar/RF için detection delay ve tracking RMSE, işaretleyici doğruluğu için hit rate ve MSE. Bu metrik seti, hem görüntü tabanlı CNN modellerinin hem de radar/RF sinyal işleme yöntemlerinin kapsamlı şekilde değerlendirilmesini sağlamaktadır.

Deneysel Protokol

Deneysel çalışma iki aşamada yürütülecektir: laboratuvar (HIL) testleri ve açık saha uygulamaları. HIL aşamasında, SDR tabanlı RF sinyalleri, radar mikro-Doppler simülasyonları ve EO/IR kamera akışları gerçek zamanlı olarak sisteme beslenerek sensör–ön işleme–CNN–füzyon–karar verme zinciri doğrulanacak, böylece simülasyon ile gerçek dünya arasındaki fark azaltılacaktır. Açık saha testlerinde ise kontrollü drone uçuşları gerçekleştirilerek doğrusal uçuş, hız değişimleri, zikzak manevraları ve farklı irtifa/mesafe senaryoları incelenecek; her senaryo istatistiksel güvenilirlik için en az 10 tekrar ile uygulanacaktır. Ayrıca sistemin dayanıklılığını değerlendirmek amacıyla sis, yağmur, düşük ışık ve yoğun RF paraziti gibi zorlu çevresel koşullar altında ek testler yapılacaktır.

SONUÇLAR VE TARTİŞMA

Bu çalışma, çoklu sensör tabanlı bir C-UAS sisteminin; radar, EO/IR kamera, RF analizörü, akustik mikrofon dizisi ve LiDAR sensörlerinin birlikte kullanılmasıyla nasıl daha güvenilir ve bütüncül bir drone tespit yaklaşımı sunabileceğini göstermektedir. Literatürde yer alan tekil sensör tabanlı çözümlerin, özellikle küçük boyutlu İHA'ların düşük SNR altında tespit edilmesi konusunda yetersiz kaldığı görülmektedir. Bu nedenle çoklu-modal verilerin birleştirildiği katmanlı mimariler, modern C-UAS senaryolarında gereklilik hâline gelmiştir.

Gerçekleştirilen HIL testlerinde, RF sinyal emülasyonu, radar mikro-Doppler simülasyonları ve EO/IR kamera akışları kullanılarak sistemin uçtan uca performansı doğrulanmıştır. Bu doğrulama, sensör → ön işleme → CNN tabanlı öznitelik çıkarımı → füzyon → tehdit seviyelendirme hattının gerçek zamanlı koşullarda stabil çalıştığını göstermiştir. HIL ortamında yapılan deneylerde özellikle radar ve RF kanallarının düşük SNR altında dahi drone varlığını belirgin şekilde ayırt edebildiği gözlemlenmiştir.

Açık saha testlerinde ise farklı uçuş senaryoları (doğrusal uçuş, hızlanma/yavaşlama, zikzak manevraları ve değişen irtifa-mesafe kombinasyonları) değerlendirilmiştir. EO/IR kamera verisi, görsel doğrulama açısından güçlü bir destek sağlarken, RF analizörü drone kontrol sinyallerini başarıyla tespit etmiş ve radar sensörleri hedefin konum ve hız bilgisini tamamlayıcı şekilde üretmiştir. Testlerde elde edilen sonuçlara göre sensör füzyonu, tekil sensör performansına kıyasla anlamlı bir doğruluk artışı sağlamış, yanlış alarm oranını düşürmüş ve özellikle karmaşık arka planlarda daha istikrarlı tespit yapılmasına imkân tanımıştır.

Çevresel koşul testlerinde (sis, yağmur, düşük ışık ve yoğun RF paraziti) sistemin dayanıklılığı gözlemlenmiş, kötü hava koşullarında EO/IR performansı düşerken radar ve RF kanallarının bu kaybı telafi ettiği görülmüştür. Bu durum, çoklu sensör yaklaşımının operasyonel sahalarda kritik önem taşıdığını doğrulamaktadır.

Sonuç olarak, önerilen C-UAS mimarisi; modüler sensör yapısı, CNN tabanlı öznitelik çıkarımı, sensör füzyon stratejisi ve gerçek zamanlı karar verme mekanizmasıyla yüksek doğrulukta drone tespit ve sınıflandırma kapasitesi sunmaktadır. Sistem maliyet açısından optimize edilebilir, farklı sensör konfigürasyonlarına kolayca uyarlanabilir ve hem HIL hem de saha koşullarında istikrarlı bir performans sergilemektedir. Bu çalışma, çoklu-modal C-UAS çözümlerinin gelecekteki araştırmaları için güçlü bir referans oluşturmakta ve gerçek operasyonel ortamlarda güvenilir kullanım potansiyeli taşımaktadır.

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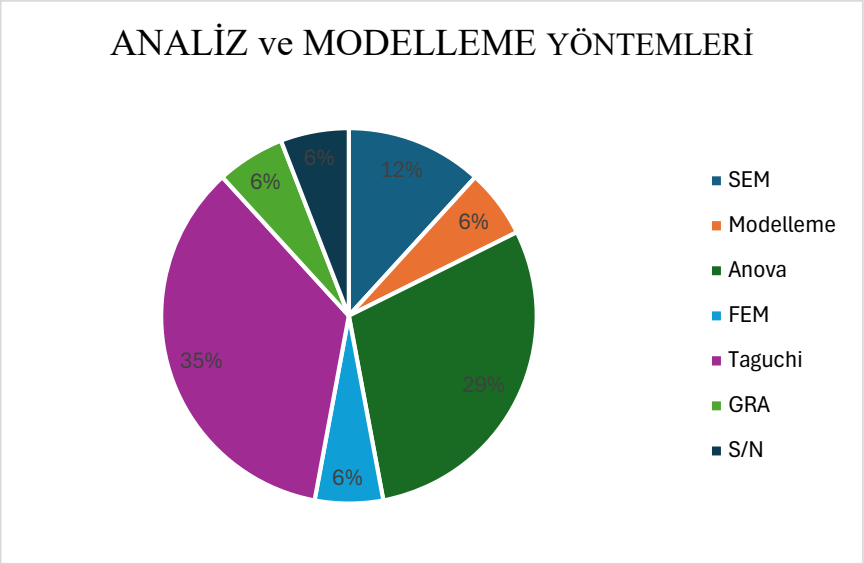
Şekil 6. Literatürde kullanılan malzemelerin dağılımı



Şekil 7. Literatürde kullanılan analiz ve modelleme yöntemleri

SONUÇ

- Savunma sanayi için yapılan çalışmalarda frezeleme ve tornalama işlemi en çok kullanılan talaşlı imalat yöntemidir. Bu işlemler karmaşık şekiller ve yüksek hassasiyet gerektiren toleranslar için yapılmaktadır.
- Araştırmalarda performans iyileştirmesi sürecinde araştırmacılara kolaylık sağladığı için çoğunlukla sayısal ve istatiksel modelleme tekniklerinden Taguchi ve ANOVA kullanılmıştır.
- Talaşlı imalat süreçlerinde kesme kuvveti, yüzey pürüzlülüğü, sıcaklık, takım aşınması çıktılarının üzerinde talaş derinliği, kesme ve ilerleme hızının belirgin bir etkisi olduğu görülmektedir.
- Yüzey pürüzlüğü frezeleme ve tornalama işlemleri için öne çıkarken delik delme ve taşlama işlemlerinde yüzey kalitesi öne çıkmaktadır.
- Taguchi deney tasarım modeli literatürde en çok kullanılan yöntem olmuştur. Bu zaman ve maliyet tasarrufu açısından modelin tercih edilmesiyle açıklanabilir.

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ŞEKİL BELLEKLİ MALZEMELER

Dr. Sinan AKSÖZ
Dr. Nimet KARDEŞ SEVER
Dr. Bülent BOSTAN

EĞİTİM
yayınevi

ŞEKİL BELLEKLİ MALZEMELER
Dr. Sinan Aksöz, Dr. Nimet Kardeş Sever, Dr. Bülent Bostan

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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Author
Clinical Genetic Specialist Dr. Ali Torabi, MD, PhD

Supervisory Authors
Associate Professor Dr. Nadir Koçak, MD — Clinical Geneticist; Associate Professor Dr. Farise Yılmaz, MD — Nuclear Medicine Specialist

Design Editor
Selin Torabi, MA

Co-Editor
Sara Rafiei Gavgani, BSc

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Clinical Genetic Specialist Dr. Ali Torabi, MD, PhD

Supervisory Authors
Associate Professor Dr. Nadir Koçak, MD — Clinical Geneticist; Associate Professor Dr. Farise Yılmaz, MD — Nuclear Medicine Specialist

Design Editor
Selin Torabi, MA

Co-Editor
Sara Rafiei Gavgani, BSc

Chairman of the Publishing House Group: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Executive Editor: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Table 3.4. Counterfactual test planning

Result type	Positive result changes	Negative result changes	Indeterminate result changes
RNA fusion test	Therapy or diagnosis may change.	If quality adequate, fusion less likely.	Repeat specimen or alternative method if high suspicion.
Germline test	Counseling, cascade testing, surveillance and sometimes therapy.	May reduce inherited-risk concern but does not erase family history.	Manage as unresolved; reanalysis or segregation may be needed.
ctDNA resistance panel	May guide biopsy, trial or next-line therapy.	If tumor fraction low, does not exclude resistance.	Repeat or tissue testing if management-changing.
Theranostic imaging	May support nuclear medicine evaluation.	May argue against radioligand approach.	Consider alternate imaging or biopsy if discordant.

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interpreting plasma-only or old tissue immune markers without checking current specimen and disease state. Pitfall 8: not documenting uncertainty about immune exclusion or microenvironmental resistance.

A safe immune sign-out should name the biomarker, method, tumor type, evidence context, host risk, imaging context and follow-up plan. If any element is missing, the board should state what must be verified before implementation.

Table 8.4. Immune-biomarker safety checks

Safety check	Why it matters	If incomplete
PD-L1 method and score	Determines drug/disease-specific interpretation.	Do not use generic PD-L1 language.
MSI/MMR method	Connects therapy and germline evaluation.	Confirm discordant IHC/PCR/NGS results.
TMB assay and cutoff	Panel and filtering alter value.	Describe as assay-specific and avoid binary overclaim.
Host contraindications	Toxicity can dominate benefit.	Escalate to oncology/subspecialty review.
Imaging pattern	Pseudoprogression is uncommon and context-dependent.	Define re-imaging/biopsy/stop rule.
Resistance biology	HLA/APM or immune exclusion can explain failure.	Consider biopsy/trial rather than PD-L1 repetition.

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Table 9.5. Minimum metastatic biology sign-out

Metastatic sign-out item	Minimum wording
Distribution	State organs involved and whether progression is focal, oligoprogressive or diffuse.
Dominant lesion	Name the lesion that drives urgency or uncertainty.
Functional phenotype	State FDG, target-tracer, RAI, SSTR, PSMA or other relevant uptake pattern.
Molecular relevance	State whether molecular data come from primary, metastasis or plasma and whether current.
Biopsy plan	Specify preferred lesion, assays and tissue handling needs.
Decision direction	Observation, local therapy, systemic switch, trial, theranostic therapy or supportive priority.
Follow-up metric	Imaging interval, biomarker, ctDNA, symptom endpoint or toxicity check.

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10.12 Teaching vignette

A patient with metastatic adenocarcinoma has liver progression after targeted therapy. The original lung biopsy contained EGFR exon 19 deletion and was treated as metastatic lung adenocarcinoma. A new liver lesion is FDG-avid and grows rapidly while other lesions remain stable. The board receives a ctDNA report showing TP53 and RB1 loss with low EGFR signal. The correct board action is not simply to change to a new targeted therapy. The pathology anchor is missing: the progressing lesion should be biopsied if safe to assess transformation, small-cell/neuroendocrine phenotype, tumor content and resistance mechanisms. Genetics can state that the pattern raises concern for clonal evolution or transformation, but the pathology diagnosis of the progressive lesion is required for confident treatment selection.

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The clinical geneticist should help the board define what kind of progression is being discussed. A molecular progression signal may justify repeat sampling, closer imaging or trial consideration. It usually does not justify switching therapy without clinical or radiologic context unless validated in that disease and setting. Conversely, obvious symptomatic or radiographic progression should not be ignored because ctDNA is negative, particularly in low-shedding tumors or sanctuary sites such as the CNS.

Progression type	Typical data source	Board implication	Caution
Biochemical progression	Tumor marker trend such as PSA, Tg, CA-125, CEA, calcitonin.	May trigger imaging, risk review or therapy reassessment.	Marker kinetics are disease-specific.
Radiographic progression	CT/MRI/PET/US or other imaging.	May define treatment failure, oligoprogression or local therapy target.	Pseudoprogression and flare patterns exist.
Molecular progression	ctDNA rise, new resistance alteration, MRD positivity.	May precede imaging; useful for planning and surveillance in validated contexts.	Negative plasma does not exclude tissue progression.
Clinical progression	Symptoms, organ dysfunction, performance decline.	May require urgent local/systemic/ supportive intervention.	Do not wait for perfect molecular data in organ threat.

Safe tumor-board wording examples
The detected alteration is biologically relevant, but its immediate treatment implications depend on current disease state and line of therapy; disease-specific guideline review is required before recommending therapy.
The patient appears to have oligoprogressive disease on otherwise controlled systemic therapy; repeat lesion-level review and consideration of local therapy may be more appropriate than immediate systemic switch.
This marker is prognostic rather than directly predictive in the current setting. It supports risk discussion and monitoring intensity, not a specific targeted therapy recommendation.
The molecular result is from a specimen obtained before the most recent therapy. If the active decision is resistance, repeat tissue biopsy or ctDNA should be considered if clinically feasible.

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15.10 Guideline-based board wording

A genetics-informed board statement should be concise and traceable. It should name the disease context, biomarker, evidence source, clinical implication, limitation and next step. It should avoid vague statements such as “targetable mutation present” or “candidate for precision therapy” without specifying the setting and source. It should also avoid copying guideline algorithms into the report; instead, it should summarize the board-relevant conclusion.

Safe tumor-board wording examples
In the context of metastatic [tumor type] after [prior therapy], the detected [biomarker] is a guideline- and/or label-relevant predictive biomarker for consideration of [therapy class], provided performance status, organ function and local access are acceptable.
The biomarker is biologically plausible but not established as a standard treatment selection marker in this tumor type and line. Trial matching or re-discussion at progression is appropriate.
Current guideline logic requires [test] before selecting first-line systemic therapy. Tissue is limited; reflex RNA fusion testing should be prioritized if DNA panel does not identify a driver and clinical urgency permits.
The detected alteration is listed in knowledge bases as actionable in other tumor types, but disease-specific evidence is insufficient for routine use here. The recommendation is clinical trial search rather than off-label treatment.

Teaching vignette: Guideline placement changes actionability
A tumor report lists a BRAF V600E mutation. The board asks whether a BRAF/MEK inhibitor should be used.
Board teaching point: The geneticist should ask the tumor type, stage, prior therapies and guideline setting. BRAF V600E has very different implications in melanoma, colorectal cancer, lung cancer, thyroid cancer, glioma and other tumors. Actionability is tumor-type and line-dependent.

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Teaching vignette: Therapy class versus patient feasibility
A patient with metastatic cancer has a targetable alteration and a drug with guideline support in later-line therapy. The patient also has rapidly worsening liver function and poor performance status.
Board teaching point: The geneticist should state that the biomarker is relevant but treatment feasibility is uncertain. The board should review expected time to benefit, hepatic dosing, toxicity, palliative goals and whether urgent supportive care or local intervention is the priority.

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25. Use tumor-normal testing when somatic/germline discrimination or hereditary risk is central.
26. Use ctDNA as a complementary tool when tissue is unavailable, when resistance is suspected, or when serial monitoring is clinically meaningful; do not let negative ctDNA overrule strong tissue or imaging evidence.
27. Document what was tested, what was not tested, what failed, and what follow-up testing is needed.

17.13 Communication between board and laboratory

The board should not treat the laboratory report as an immutable black box. When a result is borderline, discordant or unexpectedly negative, direct communication with the molecular pathologist or laboratory director can change interpretation. The board may need to ask whether a region had adequate coverage, whether an amplification was focal, whether a variant was filtered as germline or artifact, whether a fusion caller was included, whether the assay can detect promoter variants, or whether an alternate sample is preferable.

A mature cancer precision board develops a feedback loop with the laboratory. The board shares clinical outcomes and discordant cases; the laboratory updates panel content, reporting templates and limitations; and both sides agree on reflex testing pathways. This feedback loop is essential when molecular testing is used not only for standard biomarkers but for complex decision support, trial matching and institutional research.

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Model	Best use	Risk
Upfront DNA + RNA	Advanced cancers where missing a fusion would delay therapy.	Higher tissue use and cost.
DNA first, RNA reflex if negative	Common tumors where fusions are less frequent but important.	Sequential delay if reflex triggers are not automatic.
Pathology-triggered RNA	Fusion-defined tumor differential diagnosis.	Requires pathologist awareness and clear ordering pathway.
IHC/FISH screen then RNA	Low-resource or histology-enriched settings.	Screening false negatives/positives may misdirect testing.
ctDNA fusion testing	When tissue is unavailable or unsafe to biopsy.	Low shedding and assay design can cause false negatives.

18.10 RNA in resistance and lineage change

RNA can also be helpful after treatment resistance. It may reveal bypass fusions, altered transcript isoforms, splice-mediated resistance, target expression loss or lineage reprogramming. In prostate cancer, AR splice variants have been studied as resistance markers; in targeted therapy resistance, fusion partner changes or expression shifts may help explain loss of response. These applications require careful evidence grading because not all transcript changes have validated therapeutic implications.

The board should ask whether a resistance RNA result changes a standard therapy, supports a clinical trial, explains biology, or simply generates a research hypothesis. As with DNA, transcript-level findings must be linked to the current disease state and available interventions.

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19.12 Integrating CNV/LOH with HRD and DNA repair decisions

LOH and copy-number architecture are central to HRD interpretation, but they are not identical to HRD. HRD assays may use genome-wide loss of heterozygosity, telomeric allelic imbalance, large-scale state transitions, mutational signatures, BRCA1/2 status, RAD51 functional assays or proprietary combinations. A pathogenic HRR gene variant without LOH may have different implications from biallelic inactivation. A high genomic scar score may reflect historical HRD even if current resistance has developed. A reversion mutation may restore homologous recombination despite a scar. The board should treat HRD as a multi-layer interpretation rather than a single CNV number.

When a DNA repair therapeutic decision depends on architecture, the board should document which HRD method was used, whether it is validated in that tumor type, whether biallelic inactivation is demonstrated, whether platinum sensitivity is present, and whether prior PARP inhibitor or platinum exposure suggests resistance. This topic is expanded in the DNA repair and HRD chapters, but CNV/LOH literacy begins here.

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21.16 Teaching vignette: high TMB without MSI

A metastatic melanoma sample has TMB 35 mut/Mb, MSI stable, and a UV signature. The high TMB is consistent with UV-driven mutagenesis and supports immunotherapy biology in a tumor type where immunotherapy is already central. The clinical geneticist should not present this as a tumor-agnostic finding detached from melanoma guidelines. Instead, the board should integrate BRAF/NRAS/KIT status, disease burden, brain metastases, autoimmune history and prior therapy when considering immunotherapy or targeted therapy sequencing.

21.17 Chapter 21 key points

- dMMR, MSI-H and TMB-H are related but not identical biomarkers.
- IHC, PCR and NGS have different strengths, weaknesses and discordance patterns.
- MMR/MSI results can carry both treatment and hereditary-risk implications.
- TMB must be interpreted by assay, threshold, tumor type and treatment line.
- Immune biomarkers are probabilistic; contraindications and clinical context remain essential.
- Discordant results should trigger review rather than automatic action.

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Ancestry can influence founder-variant probabilities and variant interpretation. Ashkenazi Jewish ancestry, for example, can influence BRCA1/2 founder testing strategy, but founder testing alone can miss non-founder variants and other genes. The board should avoid ancestry stereotyping and should still use phenotype-appropriate testing.

Testing deceased patients can be highly valuable for family risk but may be governed by local laws and institutional policies. Stored tissue may have poor DNA quality, and tumor tissue cannot substitute for constitutional DNA without a validated strategy. When posthumous testing is considered, ethics, consent, next-of-kin and laboratory policy should be clarified.

25.12 Pre-test and post-test counseling: minimum content

Counseling phase	Minimum content
Before testing	Purpose of testing; genes/panel scope; possible P/LP, negative and VUS results; family implications; privacy; insurance/legal issues according to local law; secondary findings if relevant; limitations.
At result disclosure: P/LP	Gene-specific cancer risks; current cancer implications; surveillance/risk-reducing options; relatives at risk; cascade testing; reproductive options; written summary.
At result disclosure: VUS	Not actionable; no predictive testing of relatives; management based on history; reclassification process; avoid irreversible decisions.
At result disclosure: negative	True negative versus uninformative negative; residual risk; whether affected relative testing or updated testing is needed; screening plan.
Long-term follow-up	Reanalysis/recontact policy; changes in family history; transition of care; how patient can request updates.

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Lynch syndrome can explain dMMR and support immunotherapy discussion in certain cancers. RET germline status can drive MEN2 family management while somatic RET alterations can be targeted in selected tumors. The board should keep two columns in its reasoning: “What does this change for current cancer treatment?” and “What does this change for inherited-risk care?”

Finding	Current cancer question	Inherited-risk question
Germline BRCA2 P/LP	Does disease-site guidance support platinum/ PARP/trial strategy?	Which relatives need targeted testing and what surveillance applies?
Germline MLH1 P/LP	Is tumor dMMR/MSI-high and immunotherapy-relevant?	What colon/endometrial and other surveillance/ cascade testing are needed?
Germline RET P/LP	Medullary thyroid cancer surgical/systemic strategy and pheochromocytoma safety.	MEN2 risk category, family testing and prophylactic/surveillance planning.
Tumor-only TP53	May be somatic progression marker.	Only a germline issue if phenotype/technical features support confirmation.
Moderate-risk gene P/LP	Usually not a universal therapy biomarker.	Risk management is gene- and guideline-specific.

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Common pitfalls and safety controls

Pitfall	Why it is unsafe	Control
Overcalling biology	A plausible pathway does not equal a validated patient-level treatment indication.	Separate biological interpretation from clinical recommendation.
Ignoring specimen context	Old primary tissue, low tumor purity, decalcification or failed RNA can produce misleading negative or incomplete results.	Document specimen quality and consider repeat tissue/plasma testing when it changes management.
Guideline drift	A biomarker may be actionable in one tumor type or line but not in another.	State disease, stage, line, guideline version and local access before action wording.
No owner	A correct board discussion may fail if no clinician is responsible for the next step.	Assign owner, due date and follow-up metric in the report.

Board workflow checklist

63. Start with the active clinical question: diagnosis, initial therapy, recurrence, resistance, germline risk, toxicity prevention, trial matching or theranostic feasibility.
64. Verify diagnosis, specimen type, assay method, report date, tumor cellularity and whether the result is tumor-only, paired tumor-normal, RNA-based, plasma-based or germline.
65. Classify each finding by clinical role: diagnostic, prognostic, predictive, resistance, hereditary, toxicity-related, monitoring or research/trial-level.
66. Translate the finding only within tumor type, treatment line, patient fitness, local availability and evidence tier.
67. Document the limitation, recommendation owner and measurable follow-up endpoint.

Mini teaching vignette

A metastatic lung adenocarcinoma report lists EGFR exon 19 deletion, TP53 mutation and TMB-low. The board report summarizes only decision-relevant findings on page one, states that EGFR is the immediate predictive marker, records PD-L1 but notes it is not the primary driver of first decision in the presence of EGFR, and assigns oncology follow-up.

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Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

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Supplementary Tool. Universal disease-site board workflow

Step	Clinical geneticist task	Board output
1. Verify diagnosis	Confirm exact histology, site, stage and specimen adequacy.	Pathology-anchored working diagnosis.
2. Define active decision	State whether decision is initial therapy, recurrence, resistance, germline risk, trial matching or theranostics.	One-sentence active board question.
3. Complete testing	Check required disease-site DNA/RNA/protein/germline/imaging data.	Molecular readiness statement.
4. Interpret results	Classify each result by clinical role and evidence level.	Evidence-tiered interpretation.
5. Integrate context	Map imaging, organ threat, patient goals, access and toxicity.	Patient-level management relevance.
6. Document	Write recommendation, uncertainty, owner and follow-up metric.	Signed board recommendation.

Mini teaching vignette

A metastatic ER-positive/HER2-negative case has ESR1 mutation in plasma after aromatase inhibitor exposure and PIK3CA mutation in tissue. The board separates endocrine resistance sequencing from PI3K-pathway eligibility and assigns oncology/pharmacy toxicity review.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

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Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

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Mini teaching vignette

An endometrial carcinoma has MSH2/MSH6 loss. The board routes directly to Lynch germline evaluation rather than MLH1 methylation and separately notes immunotherapy relevance in recurrent/advanced context.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

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Supplementary Tool. Universal disease-site board workflow

Step	Clinical geneticist task	Board output
1. Verify diagnosis	Confirm exact histology, site, stage and specimen adequacy.	Pathology-anchored working diagnosis.
2. Define active decision	State whether decision is initial therapy, recurrence, resistance, germline risk, trial matching or theranostics.	One-sentence active board question.
3. Complete testing	Check required disease-site DNA/RNA/protein/germline/imaging data.	Molecular readiness statement.
4. Interpret results	Classify each result by clinical role and evidence level.	Evidence-tiered interpretation.
5. Integrate context	Map imaging, organ threat, patient goals, access and toxicity.	Patient-level management relevance.
6. Document	Write recommendation, uncertainty, owner and follow-up metric.	Signed board recommendation.

Mini teaching vignette

A left-sided metastatic CRC is RAS/BRAF WT and HER2 amplified after anti-EGFR progression. The board documents HER2-directed later-line option/trial context and asks whether HER2 amplification was confirmed by orthogonal method.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
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Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

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Disease-site sign-out checklist

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Disease-site sign-out checklist

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Supplementary Tool. Universal disease-site board workflow

Step	Clinical geneticist task	Board output
1. Verify diagnosis	Confirm exact histology, site, stage and specimen adequacy.	Pathology-anchored working diagnosis.
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Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

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[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ASCO guideline: germline and somatic genomic testing for metastatic prostate cancer, 2025.

[6] ESMO Clinical Practice Guideline for advanced and metastatic prostate cancer, current version.

[7] EANM/SNMMI guidance for PSMA PET and radioligand therapy, current versions.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): Powles T, Albiges L, Bex A, et al. Renal cell carcinoma: ESMO Clinical Practice Guideline. Ann Oncol. 2021;32:1511-1519 (verify current version).

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ESMO Clinical Practice Guideline for renal cell carcinoma, 2024.

[6] WHO Classification of Urinary and Male Genital Tumours, 5th edition.

[7] EAU Guidelines on Renal Cell Carcinoma, current version.

Chapter references

Anchor (dated source; verify current version): Powles T, Bellmunt J, Comperat E, et al. Bladder cancer: ESMO Clinical Practice Guideline. Ann Oncol. 2022;33:244-258 (verify current version).

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ESMO Clinical Practice Guideline and eUpdates for bladder/urothelial cancer, current versions.

[6] WHO Classification of Urinary and Male Genital Tumours, 5th edition.

[7] FDA labels and companion diagnostics for urothelial biomarker-linked therapies, current version.

Supplementary Tool. Universal disease-site board workflow

Step	Clinical geneticist task	Board output
1. Verify diagnosis	Confirm exact histology, site, stage and specimen adequacy.	Pathology-anchored working diagnosis.
2. Define active decision	State whether decision is initial therapy, recurrence, resistance, germline risk, trial matching or theranostics.	One-sentence active board question.
3. Complete testing	Check required disease-site DNA/RNA/protein/germline/imaging data.	Molecular readiness statement.
4. Interpret results	Classify each result by clinical role and evidence level.	Evidence-tiered interpretation.
5. Integrate context	Map imaging, organ threat, patient goals, access and toxicity.	Patient-level management relevance.
6. Document	Write recommendation, uncertainty, owner and follow-up metric.	Signed board recommendation.

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Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
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Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): Michielin O, van Akkooi ACJ, Ascierto PA, et al. Cutaneous melanoma: ESMO Clinical Practice Guideline. Ann Oncol. 2019;30:1884-1901 (verify current version).

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ESMO Clinical Practice Guideline for cutaneous melanoma, 2025/current version.

[6] ESMO guidelines for melanoma and skin cancers, current version.

[7] WHO Classification of Skin Tumours, 5th edition.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): Machiels JP, Rene Leemans C, Golusinski W, et al. Squamous cell carcinoma of the head and neck: EHNS-ESMO-ESTRO Clinical Practice Guideline. Ann Oncol. 2020;31:1462-1475.

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ESMO Clinical Practice Guidelines for head and neck cancers, current version.

[6] ESMO EURACAN salivary gland cancer guideline, current version.

[7] WHO Classification of Head and Neck Tumours, 5th edition.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
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Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): WHO Classification of Tumours: Central Nervous System Tumours, 5th edition (2021); EANO glioma guideline, current version.

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] WHO Classification of Tumours of the Central Nervous System, 5th edition.

[6] EANO guideline on molecular diagnostic tools for WHO CNS classification.

[7] CAP resources on CNS molecular classification, current version.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
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Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): Casali PG, Blay JY, Abecassis N, et al. Gastrointestinal stromal tumours and soft-tissue sarcomas: ESMO-EURACAN Clinical Practice Guidelines. Ann Oncol. 2022;33:20-33 and 1348-1365.

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ESMO Clinical Practice Guidelines for sarcoma and GIST, current version.

[6] ESMO Clinical Practice Guideline for GIST, current version.

[7] WHO Classification of Soft Tissue and Bone Tumours, 5th edition.

Chapter references

Anchor (dated source; verify current version): Kramer A, Bochtler T, Pauli C, et al. Cancer of unknown primary: ESMO Clinical Practice Guideline. Ann Oncol. 2023;34:228-246.

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] NCCN CUP guideline, current version.

[6] ESMO guidance for CUP and molecular profiling, current version.

[7] NCI PDQ CUP and tumor-agnostic therapy resources, current versions.

Supplementary Tool. Universal disease-site board workflow

Step	Clinical geneticist task	Board output
1. Verify diagnosis	Confirm exact histology, site, stage and specimen adequacy.	Pathology-anchored working diagnosis.
2. Define active decision	State whether decision is initial therapy, recurrence, resistance, germline risk, trial matching or theranostics.	One-sentence active board question.
3. Complete testing	Check required disease-site DNA/RNA/protein/germline/imaging data.	Molecular readiness statement.
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5. Integrate context	Map imaging, organ threat, patient goals, access and toxicity.	Patient-level management relevance.
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Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): Filetti S, Durante C, Hartl D, et al. Thyroid cancer: ESMO Clinical Practice Guideline. Ann Oncol. 2019;30:1856-1883 (verify current version).

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] 2025 American Thyroid Association management guidelines for adult differentiated thyroid cancer.

[6] ESMO Clinical Practice Guideline for thyroid cancer, current version.

[7] EANM/SNMMI radioiodine and thyroid imaging guidance, current versions.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
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Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

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[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] ESMO Clinical Practice Guideline for gastroenteropancreatic neuroendocrine neoplasms, current version.

[6] ENETS guidance papers, current versions.

[7] EANM/SNMMI SSTR PET and PRRT guidance, current versions.

Disease-site sign-out checklist

Checklist item	Required statement before sign-out
Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
Actionability checked	Evidence level, disease context, current treatment line and drug access documented.
Germline checked	Hereditary signals and family-history triggers routed appropriately.
Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): WHO Classification of Tumours: Paediatric Tumours, 5th edition; cooperative-group (COG/SIOPE) protocols, current version.

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] WHO Classification of Paediatric Tumours, 5th edition.

[6] NCI/COG pediatric precision oncology resources, current versions.

[7] ASCO and pediatric oncology precision medicine reviews, current versions.

Disease-site sign-out checklist

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Diagnosis checked	Histology, site, subtype and stage verified before molecular interpretation.
Specimen checked	Tumor cellularity, assay scope, DNA/RNA/protein adequacy and specimen date reviewed.
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Imaging checked	Dominant lesions, discordant lesions, organ-threat sites and nuclear medicine phenotype reviewed.
Follow-up checked	Next measurable outcome stated: imaging, biomarker, ctDNA, toxicity, germline confirmation, trial enrollment or repeat biopsy.

Chapter references

Anchor (dated source; verify current version): Duncavage EJ, Schroeder MC, O'Laughlin M, et al. Genomic profiling for clinical decision making in myeloid neoplasms; with WHO/ICC haematolymphoid classification, current versions.

[1] NCCN Clinical Practice Guidelines in Oncology, current disease-specific version; verify institutional access and version before clinical use.

[2] Mosele F, et al. ESMO Precision Medicine Working Group recommendations for NGS in advanced cancer, 2024.

[3] WHO Classification of Tumours Editorial Board. WHO Classification of Tumours, 5th edition volumes; IARC/WHO Blue Books.

[4] FDA. Oncology drug labels and companion diagnostic resources, current online version.

[5] WHO Classification of Haematolymphoid Tumours, 5th edition.

[6] International Consensus Classification and ELN AML recommendations, current versions.

[7] ClinGen myeloid predisposition resources, current version.

Supplementary Tool. Universal disease-site board workflow

Step	Clinical geneticist task	Board output
1. Verify diagnosis	Confirm exact histology, site, stage and specimen adequacy.	Pathology-anchored working diagnosis.
2. Define active decision	State whether decision is initial therapy, recurrence, resistance, germline risk, trial matching or theranostics.	One-sentence active board question.
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4. Interpret results	Classify each result by clinical role and evidence level.	Evidence-tiered interpretation.
5. Integrate context	Map imaging, organ threat, patient goals, access and toxicity.	Patient-level management relevance.
6. Document	Write recommendation, uncertainty, owner and follow-up metric.	Signed board recommendation.

Practical board table

Pattern	Typical interpretation	Possible board action	Main caution
Molecular and imaging concordant	Sampled lesion matches dominant imaging phenotype	Proceed with unified systemic or targeted strategy	Still monitor for emerging clones
Molecular target present but lesion FDG-high and rapidly progressive	Possible resistant subclone or transformed phenotype	Biopsy growing lesion; consider systemic change or local control	Avoid assuming old biopsy represents current disease
Tracer-positive heterogeneous disease	Theranostic option may help selected lesions	Consider dosimetry and mixed treatment plan	Uptake does not equal adequate dose
ctDNA rising with stable imaging	Molecular progression may precede radiographic change	Short-interval imaging or confirmatory testing	CHIP and assay noise must be excluded

Safe board wording

The board should interpret this molecular result together with the lesion map. The most clinically threatening lesion is discordant and should be considered for repeat sampling or local management.

Theranostic imaging suggests target expression, but treatment feasibility requires organ-dose and lesion-dose review.

Common pitfalls

- Using one old biopsy to represent all lesions.
- Calling tracer uptake therapeutic without dosimetry or clinical context.
- Ignoring lesion-specific symptoms.
- Changing systemic therapy for one indolent discordant lesion without considering local treatment.

Teaching vignette

A patient with prostate cancer has PSMA-avid bone disease but one enlarging FDG-avid/PSMA-low liver lesion. The concordance index highlights the liver lesion as a likely resistant clone; biopsy or local therapy may be more rational than assuming homogeneous PSMA-targetable disease.

Chapter references

Eisenhauer EA, Therasse P, Bogaerts J, et al. New response evaluation criteria in solid tumours: revised RECIST guideline version 1.1. Eur J Cancer. 2009;45:228-247.

EANM/SNMMI procedure standards and practice guidelines for nuclear medicine imaging and radiopharmaceutical therapy, including patient selection, imaging quality and dosimetry principles.

Westphalen CB, et al. ESMO Precision Oncology Working Group recommendations on the structure and quality indicators for molecular tumour boards in clinical practice. Ann Oncol. 2025.

Safe board wording

The HRD evidence supports consideration of DNA-damage response-directed therapy in the correct disease and treatment-line context, but the board should verify biallelic status, prior platinum response and current label/guideline eligibility.

This DDR alteration is not sufficient by itself to infer PARP inhibitor sensitivity.

Common pitfalls

- Treating all DDR genes as equivalent.
- Ignoring zygosity.
- Ignoring reversion mutations.
- Using HRD score outside validated disease context.
- Missing germline implications.

Teaching vignette

A patient with ovarian cancer has a high HRD score but progressed early on platinum. The board should avoid assuming PARP sensitivity from scar score alone and should review disease status, prior treatment and alternative options.

Chapter references

ESMO Precision Medicine Working Group. Recommendations for the use of next-generation sequencing for patients with advanced cancer in 2024 and related genomic reporting recommendations. Ann Oncol / ESMO resources. 2024.

Li MM, Datto M, Duncavage EJ, et al. Standards and guidelines for the interpretation and reporting of sequence variants in cancer: AMP/ASCO/CAP joint consensus recommendation. J Mol Diagn. 2017;19:4-23.

ASCO guideline panel. Germline testing in patients with cancer: ASCO guideline and related panel recommendations. J Clin Oncol. 2024.

Safe board wording

ctDNA supports molecular progression, but the board should correlate with imaging and clinical course before changing therapy.

The plasma-negative result does not exclude active disease because assay sensitivity and tumor shedding are limited.

Common pitfalls

- Changing therapy on one low-level unconfirmed variant.
- Ignoring CHIP.
- Comparing results from different assays as if equivalent.
- Using ctDNA MRD outside validated context.
- Forgetting sample timing after surgery or radiation.

Teaching vignette

A patient on EGFR inhibitor develops rising ctDNA with an on-target resistance mutation before RECIST progression. The board may recommend confirmatory imaging, trial matching or next-line planning, rather than immediate unsupported therapy change.

Chapter references

ESMO Precision Medicine Working Group. Recommendations for the use of next-generation sequencing for patients with advanced cancer in 2024 and related genomic reporting recommendations. Ann Oncol / ESMO resources. 2024.

Li MM, Datto M, Duncavage EJ, et al. Standards and guidelines for the interpretation and reporting of sequence variants in cancer: AMP/ASCO/CAP joint consensus recommendation. J Mol Diagn. 2017;19:4-23.

Eisenhauer EA, Therasse P, Bogaerts J, et al. New response evaluation criteria in solid tumours: revised RECIST guideline version 1.1. Eur J Cancer. 2009;45:228-247.

Safe board wording

This tumor-only finding raises a germline alert and should be followed by consented germline testing and genetic counseling before any familial-risk conclusion is made.

No predictive testing of relatives should be based on a VUS or unconfirmed tumor-only variant.

Common pitfalls

- Calling a tumor-only result germline.
- Missing relatives at risk.
- Using VUS for cascade testing.
- Failing to document consent.
- Confusing somatic treatment eligibility with inherited-risk management.

Teaching vignette

A young patient with medullary thyroid carcinoma has a RET variant in the tumor report. The board should recommend germline RET testing and MEN2-oriented counseling, while avoiding premature familial conclusions until germline confirmation.

Chapter references

ASCO guideline panel. Germline testing in patients with cancer: ASCO guideline and related panel recommendations. J Clin Oncol. 2024.

Richards S, Aziz N, Bale S, et al. Standards and guidelines for the interpretation of sequence variants: ACMG/AMP joint consensus recommendation. Genet Med. 2015;17:405-424.

Li MM, Datto M, Duncavage EJ, et al. Standards and guidelines for the interpretation and reporting of sequence variants in cancer: AMP/ASCO/CAP joint consensus recommendation. J Mol Diagn. 2017;19:4-23.

Safe board wording

The imaging phenotype supports theranostic consideration, but final treatment planning requires nuclear medicine review of lesion-level uptake, dosimetry and organ reserve.

Dominant target-negative disease makes the radioligand strategy unlikely to control the current clinical threat.

Common pitfalls

- Treating any positive uptake as enough.
- Ignoring FDG-positive target-negative lesions.
- Forgetting prior marrow toxicity or renal impairment.
- Overlooking symptom-driving lesions.
- Offering research tracers as standard care.

Teaching vignette

A neuroendocrine tumor patient has SSTR-positive liver and bone disease but rapidly growing FDG-positive/SSTR-low peritoneal disease. The feasibility index suggests that PRRT may not control the dominant threat without additional systemic or local strategy.

Chapter references

EANM/SNMMI procedure standards and practice guidelines for nuclear medicine imaging and radiopharmaceutical therapy, including patient selection, imaging quality and dosimetry principles.

Eisenhauer EA, Therasse P, Bogaerts J, et al. New response evaluation criteria in solid tumours: revised RECIST guideline version 1.1. Eur J Cancer. 2009;45:228-247.

Westphalen CB, et al. ESMO Precision Oncology Working Group recommendations on the structure and quality indicators for molecular tumour boards in clinical practice. Ann Oncol. 2025.

Safe board wording

The board interpretation is based on the available validated reports and current disease context. Recommendation: [action]. Evidence/limitation: [evidence tier and uncertainty]. Owner: [team]. Follow-up: [metric and date].

No treatment change is recommended from this finding alone; it should be retained as context and reassessed if disease state or guideline status changes.

Common pitfalls

- Producing a long unreadable report.
- Copying laboratory text without clinical translation.
- Leaving out technical limitations.
- Not assigning responsibility.
- Not documenting dissent or uncertainty.

Teaching vignette

A one-page report for a patient with metastatic lung cancer should state that EGFR exon 19 deletion is predictive in NSCLC, identify prior therapy and resistance status, and name the oncology owner for treatment sequencing rather than simply listing the mutation.

Chapter references

ESMO Precision Medicine Working Group. Recommendations for the use of next-generation sequencing for patients with advanced cancer in 2024 and related genomic reporting recommendations. Ann Oncol / ESMO resources. 2024.

Westphalen CB, et al. ESMO Precision Oncology Working Group recommendations on the structure and quality indicators for molecular tumour boards in clinical practice. Ann Oncol. 2025.

U.S. Food and Drug Administration. List of Cleared or Approved Companion Diagnostic Devices (In Vitro and Imaging Tools). Continuously updated FDA resource.

- Omitting version control.
- Failing to define whether a conclusion is diagnostic, predictive or research-only.

Teaching vignette

A sarcoma case may require histology, IHC, RNA fusion testing and radiology anatomy. The architecture keeps each source visible and then explains how the fusion confirms diagnosis and changes treatment or trial options.

Chapter references

ESMO Precision Medicine Working Group. Recommendations for the use of next-generation sequencing for patients with advanced cancer in 2024 and related genomic reporting recommendations. Ann Oncol / ESMO resources. 2024.

Li MM, Datto M, Duncavage EJ, et al. Standards and guidelines for the interpretation and reporting of sequence variants in cancer: AMP/ASCO/CAP joint consensus recommendation. J Mol Diagn. 2017;19:4-23.

Collins GS, et al. TRIPOD+AI statement: updated guidance for reporting clinical prediction models that use regression or machine learning methods. BMJ. 2024;385:e078378.

Common pitfalls

- Dashboard fields without assigned owners.
- Combining urgency and evidence level into one score.
- Failing to update after the meeting.
- Using dashboard output as automated treatment order.

Teaching vignette

A patient with a rare fusion-positive tumor is highly actionable but not board-ready because RNA quality, diagnosis and prior therapy line are unclear. The dashboard should delay the final recommendation rather than encourage a premature targeted-therapy statement.

Chapter references

Westphalen CB, et al. ESMO Precision Oncology Working Group recommendations on the structure and quality indicators for molecular tumour boards in clinical practice. Ann Oncol. 2025.

von Elm E, Altman DG, Egger M, et al. The Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement. Lancet. 2007;370:1453-1457; STROBE checklist resource.

Collins GS, et al. TRIPOD+AI statement: updated guidance for reporting clinical prediction models that use regression or machine learning methods. BMJ. 2024;385:e078378.

Safe board wording

The board may use this result for clinical decision support under the documented consent pathway, but germline implications require separate consented genetics evaluation.

This dataset should not be used for research analysis until the approved governance and consent conditions are confirmed.

Common pitfalls

- Using research results as clinical results without validation.
- Ignoring family implications.
- No policy for secondary findings.
- Uncontrolled sharing of identifiable reports.
- No recontact process.

Teaching vignette

A tumor-normal panel identifies a likely pathogenic mismatch repair gene variant. The board must separate immediate tumor treatment implications from consented germline disclosure and family counseling.

Chapter references

World Medical Association. Declaration of Helsinki: Ethical Principles for Medical Research Involving Human Participants. 2024 revision and current WMA resource.

ASCO guideline panel. Germline testing in patients with cancer: ASCO guideline and related panel recommendations. J Clin Oncol. 2024.

Richards S, Aziz N, Bale S, et al. Standards and guidelines for the interpretation of sequence variants: ACMG/AMP joint consensus recommendation. Genet Med. 2015;17:405-424.

- Using non-validated research results clinically.
- Not documenting assay version.
- No plan for failed RNA.

Teaching vignette

A sarcoma sample is DNA panel-negative. Because the suspected diagnosis is fusion-driven and RNA was not performed, the board should recommend RNA fusion testing rather than concluding there is no driver.

Chapter references

International Organization for Standardization. ISO 15189:2022 Medical laboratories - requirements for quality and competence.

Li MM, Datto M, Duncavage EJ, et al. Standards and guidelines for the interpretation and reporting of sequence variants in cancer: AMP/ASCO/CAP joint consensus recommendation. J Mol Diagn. 2017;19:4-23.

ESMO Precision Medicine Working Group. Recommendations for the use of next-generation sequencing for patients with advanced cancer in 2024 and related genomic reporting recommendations. Ann Oncol / ESMO resources. 2024.

- Using PRS without ancestry calibration.
- Failing to document access barriers.
- Assuming all patients can complete germline counseling.

Teaching vignette

A patient has an NTRK fusion but cannot access the approved agent locally. The board should document the evidence, explore assistance/trial pathways and avoid implying that lack of access equals lack of actionability.

Chapter references

ESMO Precision Medicine Working Group. Recommendations for the use of next-generation sequencing for patients with advanced cancer in 2024 and related genomic reporting recommendations. Ann Oncol / ESMO resources. 2024.

Mateo J, Chakravarty D, Dienstmann R, et al. A framework to rank genomic alterations as targets for cancer precision medicine: the ESMO Scale for Clinical Actionability of Molecular Targets (ESCAT). Ann Oncol. 2018;29:1895-1902.

Husereau D, Drummond M, Augustovski F, et al. Consolidated Health Economic Evaluation Reporting Standards 2022 (CHEERS 2022) statement. BMJ. 2022;376:e067975.

- No mention of guideline version.
- Confusing research with clinical care.
- Overstating germline from tumor-only data.
- Using AI outputs without source verification.

Teaching vignette

A report says “NTRK VUS - consider TRK inhibitor.” Safer wording is that the VUS is not actionable; if clinical suspicion remains, confirm fusion status with validated RNA testing or refer for expert review.

Chapter references

Li MM, Datto M, Duncavage EJ, et al. Standards and guidelines for the interpretation and reporting of sequence variants in cancer: AMP/ASCO/CAP joint consensus recommendation. J Mol Diagn. 2017;19:4-23.

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The study should report how missing molecular or imaging data affected interpretability.

Common pitfalls

- Hindsight bias.
- No denominator.
- No missingness analysis.
- Overclaiming outcome benefit.
- Using updated therapies unavailable at the time without labeling this clearly.

Teaching vignette

A retrospective review finds that RNA testing would have detected actionable fusions in selected DNA-negative cases. The correct conclusion is that RNA reflex testing may improve board completeness and should be prospectively evaluated.

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Common pitfalls

- Collecting too much unstructured data.
- No follow-up ownership.
- No implementation outcome.
- No version control.
- Confusing registry with treatment directive.

Teaching vignette

A registry shows that 40% of high-evidence recommendations were not implemented because of drug access. This finding is an institutional quality signal, not a molecular interpretation issue.

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- No stop rules.
- Scaling before correcting workflow failures.

Teaching vignette

A pilot board identifies many actionable findings but reports are delivered after treatment decisions have already been made. The pilot should revise triage and turnaround before claiming clinical impact.

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Core reference framework. Disease- and topic-specific anchors are listed at the end of each chapter; all guideline and label sources should be verified against their current version and access date before clinical use.

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SÖZÜN PLASTİK SANATI

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PROF. DR. ERHAN AKIN
İBRAHİM ETHEM GÖZTOK

EĞİTİM
yayınevi

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Prof. Dr. Erhan Akın, İbrahim Ethem Göztok

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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Santral: +90 332 351 92 85
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bilgi@egitimyayinevi.com

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İnternet Satış: www.kitapmatik.com.tr
Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

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DEĞİŞEN EĞİTİM ORTAMLARINDA YENİ SORUNSALLAR

(Eğitimcilere Yönelik Bir Rehber)

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DOÇ. DR. İBRAHİM HALİL YURDAKAL

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Whatsapp hattı: +90 501 651 92 85
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DR. ÖĞR. ÜYESİ METİN ÖZLÜ

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Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Sıfırdan Zirveye

BAŞARILI GİRİŞİMCİLİK HİKÂYELERİ

Konya Örneği

DOÇ. DR. SERAP KALFAOĞLU
DR. ÖĞR. ÜYESİ MUSTAFA YILMAZ

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yayınevi

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Doç. Dr. Serap Kalfaoğlu, Dr. Öğr. Üyesi Mustafa Yılmaz

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
Genel Yayın Yönetmeni: Yusuf Yavuz (yusufyavuz@egitimyayinevi.com)
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DR. ÖĞR. ÜYESİ UĞUR İNCE
DOÇ. DR. FATİH HARUN TURHAN

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Dr. Öğr. Üyesi Uğur İnce, Doç. Dr. Fatih Harun Turhan

Yayınevi Grubu Genel Başkanı: Yusuf Ziya Aydoğan (yza@egitimyayinevi.com)
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Santral: +90 332 351 92 85
Editör hatları: +90 533 151 50 42, +90 507 151 50 43
bilgi@egitimyayinevi.com

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Whatsapp hattı: +90 553 950 50 37
bilgi@kitapmatik.com.tr

Kitabevi Şubesi: Eğitim Kitabevi, Şükran mah. Rampalı 121, Meram, Konya, Türkiye
Whatsapp hattı: +90 501 651 92 85
bilgi@egitimkitabevi.com

EĞİTİM YAYINEVİ GRUBU

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