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2024

6TH INTERNATIONAL ENGINEERING AND TECHNOLOGY MANAGEMENT SUMMIT 2024

ENGINEERING and TECHNOLOGY MANAGEMENT in DEFENSE INDUSTRY

17-19 October 2024 Ankara / Türkiye

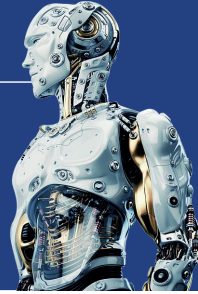
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October 17, 2024

Başkent University, Faculty of Economics and Administrative Sciences, İhsan Doğramacı Conference Hall

TIME	EVENT
09:00 – 10:00	Registration
10:30-11:15	Opening Remarks and Introduction Prof. Dr. H. Okan Yelođlu, Baskent University, ETMS, Chair Prof. Dr. Sitkı Gözlü, Istanbul Technical University, Honorary Chair Prof. Dr. Hakan Özkardeş, Başkent University (At Their Discretion) Prof. Dr. Mehmet Haberal, Başkent University, Founder (At Their Discretion)
10:30-11:15	Keynote: Policies for Emerging Technologies, Prof. Dr. Tuđrul Daim, Portland State University, USA.
11:15 – 11:30	Break
11:30 – 12:30	PANEL I Engineering and Technology Management in Defense Industry Panel Session Chair: Prof. Dr. Abdülkadir Varođlu, Başkent University Assist. Prof. Dr. Erhan Solakođlu, Başkent University M. Emre Yurttagül, Roketsan Dr. Egemen Özalp, Lead Appraiser, ISACA c. CMMI Performance Solutions Dr. Mehmet Erdem Çorapçiođlu, Turkish Aerospace Industries, Inc.
12:30 – 13:30	Lunch Break
13:30 – 14:30	PANEL II Technology Applications in Defense Industry Panel Session Chair: Prof. Dr. Ferhan Çebi Assist. Prof. Dr. Hayrullah Yıldız, Başkent University Dr. Perin Ünal, Teknopar Industrial Automation Hacer Selamođlu, Teknology and Innovation Management Consultant
14:30 – 14:45	Break
14:45 – 15:30	Keynote: Human Perspective on Sustainable Logistics 4.0: Trends, Challenges, Methods and Best Practices, Prof. Dr. Beata Mrugalska, Poznan University of Technology, Poland.
15:30 – 15:45	Break
15:45 – 16:30	Invited Speaker: Erhan Sipahiođlu, TAFF - Turkish Defense Industry Relations and The Role of Foundation Companies In Technology Management, Turkish Armed Forces Foundation
16:30-17:30	Reception

October 18, 2024

Başkent University, Faculty of Engineering, Room: F-204

TIME	EVENT
09:00 – 10:00	Keynote: International Technology Management, Prof. Dr. Markus A. Launer, Ostfalia University, Germany
10:15 – 10:30	Break
10:30 – 11:30	PANEL III University-Industry Collaboration in Engineering and Technology Management Panel Session Chair: Prof. Dr. Berna Dengiz Erdal Gülcüler, AAES Advanced Engineering Zübeyde Kın Çağlayan, Presidency of Defense Industries Şahizer Ön Çakır, Havelsan Dr. Serdar Gökpinar, TTGV, Advisor
11:30 – 12:30	Lunch Break
12:30 – 13:30	Panel IV Foresight and Strategies in Engineering and Technology Management Panel Session Chair: Prof. Dr. Serhat Çakır Alpaslan Erdoğan, Lieutenant General (Ret.) Prof. Dr. Erkan Erdil, Department of Economics and Science and Technology Policies Research Center (METU-TEKPOL), Middle East Technical University, METU Dr. Murat Aslan, ASELSAN Dr. Tanyel Çakmak, Turkish Aerospace Industries, Inc.
13:30 – 13:45	Break
13:45 – 14:30	Invited Speaker: Pelin Özkaya, Lawyer, Cyber Crimes and Legal Assessment in the Defense Industry
14:30 – 14:45	CLOSING SESSION
14:45 – 15:00	Break
15:00 – 18:30	Parallel Sessions - Paper Presentations

October 19, 2024 (Online)

TIME	EVENT
10:00 – 11:00	Online Session I
11:00 – 11:15	Break
11:15 – 12:15	Online Session II

Parallel Sessions- Paper Presentations

October 18, 2024

15:00-16:00 - Technology Management & Innovation

Room: F-203

Session Chair: Prof. Dr. H. Okan Yelođlu

Paper ID	Authors	Title
923	Ozay Ozaydın	Enhancing Supply Chain Resilience in Defense Manufacturing: Strategies for a Volatile Global Landscape
918	Gözde Morgül	Savunma Sanayiinde Yenilik ve Arařtırma Trendlerine Bibliyometrik Bir Yaklaşım
928	Güney Uđurlu, Selda Güney	Intrusion Detection System Using Machine Learning Algorithms
915	Fatih Bildirici, Keziban Seçkin Codal	Innovation and Entrepreneurship for Defense and Aviation Industry: Pioneer Strategies and Model Proposal

15:00-16:00 - Project Management & R&D

Room: F-204

Session Chair: Prof. Dr. Sıtkı Çağdaş İnam

Paper ID	Authors	Title
849	Oğuzhan Dağ, Serhat Çakır	Savunma Sanayiinde Ar-Ge Performans Ölçümü İçin Bir Metrik Önerisi
853	Hadi Tolga Gökşidan, Erhan Solakođlu	Value Creation In Defence Projects Evaluation Of Project Lifecycle Management (Plm) Approaches
874	Burhan Kayıran, Ömür Yaşar Saatçiođlu	Organizational DNA Fundamentals of a Port Business in terms of Sustainability-oriented Innovation: A Borusan Port Case Study
878	İrem İmren, Pelin Toktaş	Çevik Proje Yönetimi Yaklaşımı ile Geliştirilen Elektronik Test Donanımlarında Kritik Başarı Faktörlerinin DEMATEL Yöntemi ile Belirlenmesi

15:00-16:00 - Engineering Management & Entrepreneurship

Room: Seminar Room -1-

Session Chair: Prof. Dr. M. Güray Ünsal

Paper ID	Authors	Title
892	Müjgan Sađır, Orkun Başkan	An Interdiction Mathematical Model for Tri-Levels Electrical Grid Protection Problem with Multiple Types Of Attacks
893	Pelin Başak Kevserođlu, Müjgan Sađır	Solving Defender Attacker Interdiction Problems for Urban Water Networks with Phyton and Mathematical Model
841	Hakkı Bilgen, Serhat Çakır	The Impact of Internationalisation on Turkey's Defence Industry Competitiveness
813	Mertcan Özçelik, Sena Dasdemir, Emine Nida Zenginođlu, Rifat Kurban	Yapay Zeka Odaklı Patent Veri Analizi ile Teknoloji Olgunluđunu ve Benimsenmesini Anlamak

15:00-16:00 - Emerging Technologies
Room: Seminar Room -2-
Session Chair: Prof. Dr. Gülin Feryal Can

Paper ID	Authors	Title
812	Simber Atay, Gülsün Kurubacak Çakır	Watching You, Watching Me: Panopticon Revisited to Unveil the Layers of Surveillance Studies
824	Serhat Çakır	Yönlendirilmiş Enerji Kaynakları
881	Onur Köse, Emre Sümer	Enerji Tasarrufu Sağlayan Akıllı Ev Sistemi
922	Aylin Molla, Damla Yemen Turan, Tolga Kaya	Customer Segmentation for Retail Industry by Using RFM Analysis and K-Means Clustering Techniques

15:00-16:00 - Innovation Management & Energy Policy
Room: Seminar Room -3-
Session Chair: Prof. Dr. Özlem Darcansoy İşeri

Paper ID	Authors	Title
889	F. Oben Ürü	Exploring Innovation Networks in Defense Industry
936	Güney Uğurlu, Emre Sümer	Advanced Malware Detection Using Convolutional Neural Networks: A Visual Approach
935	Hatice Hilal Yücel, Selçuk Utaş, Yücel Mert Karaoğlu, Tuğçe Gürsoy	ICP Plasma For 0,3 Methane And 0,7 Nitrogen Gas Mixture At 1 Torr
945	Ebru Acuner	Energy Efficiency in the Defense Industry: Key Aspects, Strategies and Challenges

16.15-17.15 - Data Science & AI
Room: F-203
Session Chair: Prof. Dr. Ömür Yaşar Saatçioğlu

Paper ID	Authors	Title
838	Ayşe Meriç Yazıcı, Hakkı Okan Yeloğlu	Rapid Adaptation System In Business Management Processes Inspired By The Shape-Changing Flow Of Lightning
924	Gökçe Nur Taşağıl Arslan, İlayda Korkmaz, Kemal Gürol Kurtay	Ammunition Stock Forecast Analysis with Deep Learning and Time Series Methods
926	Miray Gizem Top, Burak Baloğlu, F. Oben Ürü, Ebru Gözükara	The Dark Side of AI: Ethical and Societal Implications of Deepfake Technology
806	Yaren Çelik, Selda Güney, Berna Dengiz	Defect Detection Model Based On Image Processing In The Textile Industry

16.15-17.15 - Technology Foresight
Room: F-204
Session Chair: Prof. Dr. Sami Karadeniz

Paper ID	Authors	Title
814	Hüseyin Aksu, Fatima Başer, İrem Merve Küçükali, Merve Durukan Kaya, Emre Çimen	Teknoloji Öngörüsü Önceliği Belirleme Metodolojisi Geliştirilmesi
823	Merve Asilgullari Ayan, Serhat Çakır, Gülsün Kurubacak Çakır	The Role and Impact of Technology Foresight Studies Case Study in the Defense Industry
837	Aleyna Kırmızı, Kaan Bodu	Weak Signal Detection Using Machine Learning: A Study in Defence Industry
844	Merve Durukan Kaya, Büsra Bayraktar, Kaan Bodur, Aleyna Kırmızı, Mehmet Erdem Çorapçioğlu	Savunma Sanayiinde Teknoloji Öngörüsü: Geleceği Şekillendirecek Teknolojiler Senaryo Yarışması ve Çalıştayı Örneği

16.15-17.15 - Contemporary Approaches in Defense Industry
Room: Seminar Room -1-
Session Chair: Prof. Dr. Öznur Özkan

Paper ID	Authors	Title
821	Gülsün Kurubacak Çakır, Serhat Çakır	Fundamental Components of Technology Foresight in the Defence Sector
846	Hajar Farnoudkia, Nimet Çakır, Güray Küçükkocaoğlu	How Defense Expenditures Influence Economic Development: A Comparative Study of 140 Countries (2000- 2020)
875	Yiğit Çağlar, Özgüç Onur Güneri, Meryem Şahin Tütüncü, Harun Doğan	Artificial Intelligence in Quality Management
951	Begüm Atalık, Kemal Gürol Kurtay, Gülin Feryal Can, Hakan Ayhan Dağıstanlı	Fire Detection Using Uav-Based Against Missile Attack Threats to Ammunition Depots

16.15-17.15 - Emerging Technologies
Room: Seminar Room -2-
Session Chair: Prof. Dr. İsmail Cengiz Koçum

Paper ID	Authors	Title
883	Reşat Ali Tütüncüoğlu, Selda Güney	Ground Military Combat Vehicle Type Target Classification Via Artificial Intelligence
891	Ali Güner Bekir, Aleyna Biçer, Elif Alptekin, Hayrullah Yıldız	Radar Simülatorü Geliştirme Projesi
897	Gülşah Demirhan Aydın	Micro Revolution in Defense Technologies: The Significance and Powerful Applications of MEMS
946	Ali Asgary, Shahab Moeini, Peyman Naeemi	LandminesAware Virtual Reality Application: Training Humanitarian and Public about Landmines
944	Sinem Besirli Tapu, Adnan Corum	AHP ile Elektrikli Otobüs Seçimi

16.15-17.15- Operations Research & Management

Room: Seminar Room -3-

Session Chair: Prof. Dr. Murat Paşa Uysal

Paper ID	Authors	Title
836	Erol Yücel, Altan Ozkıl, Serpil Erol	Global Arms Transfers Analysis Through Visual Analytics To Enable Military Advantage
879	Mehmet Güray Ünsal, Serhat Çakır, Hakkı Okan Yeloğlu, Altay Oğulcan Dalkılıç	R&D Performance Evaluation of European Countries
886	Melis Özelkut, Muhammed Yorulmaz	Developing a Decision Support System for Project Prioritization and Selection in Electricity Distribution Companies
888	Aygün Altundaş, Kemal Gürol Kurtay, Semih Taş	Ammunition Demand Forecasting and Simultaneous Collection and Distribution Vehicle Routing Problem: Application to a Military Unit

17.30-18.30 - Data Science & AI

Room: F-203

Session Chair: Prof. Dr. Sedat Nazlıbilek

Paper ID	Authors	Title
914	Selin Işık, Gülin Feryal Can	Ergonomik Risk Kriterlerini Derin Öğrenme Teknikleri İle İnceleyen Çalışmaların Bibliyometrik Analizi
920	Güney Uğurlu, Bekir Göğüş, Hulusi Orçun Deniz, Selda Güney	Detection of Saffron Plant Using Artificial Intelligence
925	Elif Nur Haner Kırçıl, Çağatay Berke Erdaş	Autonomous Target Identification in Military Operations Using Synthetic Aperture Radar Imagery
927	Halise Nur Aydın, Begüm Şener, Çağatay Berke Erdaş	Leveraging Deep Learning for Accurate Aircraft Classification in Remote Sensing Images

17.30-18.30 - Technology Foresight

Room: F-204

Session Chair: Session Chair: Prof. Dr. Serhat Çakır

Paper ID	Authors	Title
826	Merve Asilgullari Aya, Gülsün Kurubacak Çakır, Serhat Çakır	Technology Investments and Impact Analysis in the Defense Industry
845	Hüseyin Uçar	Genişletilmiş Gelecek Çarkı Yöntemi İle Yeni Bir Öngörü Analizi Çerçevesi Oluşturulması
876	Hatice Betül Eseroğlu, Furkan Ali Tunç, İlky Türe	Development of an Application with an AI-Based Prediction Model for Future Technologies
894	Ekin Karabulut, Gül Beyza Kocamiş	Havacılık Ve Savunma Sektöründe Yeni Bir Teknoloji Öngürüsü Aracı: Teknoloji Konsepti Kanvası Uygulaması
899	Zehra Özeren, Yasemin Koç, Kübra Çelebi, Tuğçe Durmaz, Ahmet Furkan Akdamar, Kadir Karaduman, Emre Çörü, Bünyamin Bayrak, Volkan Altıntaş	Yapay Zeka Destekli Teknoloji Olgunluk Değerlendirme Aracı: Akademik Yayınlar ve Patentler Üzerine Bir Çalışma

17.30-18.30 - Blockchain & Digital Transformation

Room: Seminar Room -1-

Session Chair: Prof. Dr. Oben Ürü

Paper ID	Authors	Title
833	Aygül Aytaç, Serhat Çakır	Relationship Between Blockchain Technology and Digital Clustering: Applicability in the Defense Industry
919	Canberk Yazar	Tedarik Zinciri Yönetiminde Blokzincir Kullanımının Sektörel Performans Etkisinin Değerlendirilmesi
822	Gülsün Kurubacak Çakır, Merve Asiloğulları Ayan, Serhat Çakır	Navigating the Digital Frontier: Challenges, Opportunities, and Implications of Digital Transformation in the Defense Industry
913	Fevzi Üreten, Murat Tahir Çaldağ	Savunma Sektöründe Yapay Zeka ve Etik Sorunlar

October 19, 2024

10.00-11:00 - Emerging Technologies

Teams Link:

Session Chair: Assoc. Prof. Dr. Nurcan Alkış

Paper ID	Authors	Title
835	Selin Göçen, Gülsün Kurubacak Çakır	İletişim Becerilerinin Geliştirilmesinde Yenilikçi Teknolojiler: Savunma Sanayi için Öneriler
840	Sukrane Ece Esirge, Özlem Senvar	Artificial Intelligence and Stochastic Modeling Approaches in Information Technology Applications
921	Hazal Karlıdağ Köroğlu, Hayrullah Yıldız	Simulation study of Luneberg Lens on X-Band horn antenna
811	Hafsa Nur Öztürk, Gül Didem Batur Sir, Hakan Çerçioğlu	Measuring the Impact of Industry 4.0 on the Defense Industry Using Deep Learning Techniques: A Roadmap Study

10.00-11:00 - Defense & Digital Transformation

Teams Link:

Session Chair: Assist. Prof. Dr. Murat Tahir Çaldağ

Paper ID	Authors	Title
929	Murat Aslan, Serhat Çakır	Ana Savunma Sanayi Firmalarının Altyüklenici Firmalara Yetenek Katkısı Politika Önerileri ve Güncel Durum Değerlendirmesi
912	Bilal Topaloğlu, Başar Öztays, Onur Doğan	Next Activity Prediction for E-Commerce Using GNNs
884	Bilal Topaloğlu, Başar Öztaysi, Onur Doğan	A User-Guided Clustering Approach for Process Mining

10.00-11.00 - Human Resources and Entrepreneurship

Teams Link:

Session Chair: Assoc. Prof. Ebru Saraloğlu Güler

Paper ID	Authors	Title
930	Mehmet Ali Işık, Gül T. Temur	Prioritizing Key Criteria Causing Social Entrepreneurship Failures: A Framework Approach
911	Muhammet Fatih Şengüllendi	Türkiye Havacılık ve Uzay Sanayii Şirket CEO'larının Üst Kademe Teorisi Kapsamında İncelenmesi
943	Erkan Tiryaki, Serhat Çakır	Teknoloji Geliştirme Projelerinin Etki Analizi

11.15-12.15 - Data Science & AI

Teams Link:

Session Chair: Assist. Prof. Dr. Murat Üçüncü

Paper ID	Authors	Title
815	Zachary Harmon, Jason Owen	Exploring the Transformative Role of Predictive Machine Learning in Professional Basketball: A Study on NBA Game Outcome Predictions
850	Özkan Kantemir, Altan Özkil, Onur Deniz Kurt	Command and Control Technology Requirements for Land Border Security Operations in Türkiye
942	Erkan Tiryaki, Serhat Çakır	Temel Araştırma Projelerinin Etki Analizi
839	Merve Hatice Karatas	The Nexus Between Common Criteria (ISO/IEC 15408) and IT Governance

11.15-12.15 - Strategy & Technology Management

Teams Link:

Session Chair: Assist. Prof. Gözde Önder Uzun

Paper ID	Authors	Title
843	Mesude Buse Ekri, Esra Dinler	Effective Technology and Innovation Management in the Defense Industry
825	Mukaddes Burhan, Serhat Çakır	The long-term impacts of Türkiye Vision 2023 Technology Foresight
916	Soner Karataş, Merve Hatice Karataş	Artificial Intelligence in Penetration Tests for Cyber Defence



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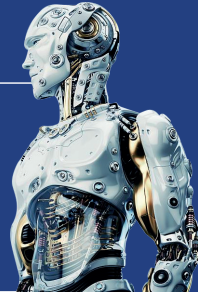
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