International Conference on Advances and Innovations in Engineering

3.ICAIE

Conference Date
25-27
September 2025

15 June 2025
Deadline for abstract submission

30 June 2025
Deadline for full-text submission

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Place: Fırat University, Atatürk Culture and congress Center

Time	Location: Fırat University Congress Center
08:30-09:30	**Conference Registration**
09:30-10:00	**Welcome and Introduction**
10:00-11:30	**TÜBİTAK PANELİ**
11:30-14:00	**Lunch (Fırat University Social Center)**

Time	Location: Fırat University Congress Center Chairman: Prof. Dr. Mete Onur KAMAN & Prof. Dr. Nevin CELIK
14:30-15:00	**Keynote Speaker** **Prof. Dr. Deniz ÜNER** **Chemical Engineering, *ODTU***
15:00-15:30	**Keynote Speaker** **Prof. Dr. Rashid Nadirov** **Metallurgical and Materials Engineering *Al-Farabi Kazakh National University***
15:30-16:00	**Keynote Speaker** **Dr. Musheer Ahmad** **Computer Engineering Jamia Millia Islamia University**
16:00-16:20	**Coffee Break**
16:20-16:50	**Keynote Speaker** **Dr. Samir Brahim Belhaouari** **College of Science and Engineering**
16:50-17:20	**Keynote Speaker** **Prof. Dr. Felipe Cabellero Briones** **National Polytecnic Institute Altamira, Tamaulipas, Mexico**
17.30-21.30	**Gala Night** **(Elazig Municipality Culturepark)**
Since the presentations are remote, you can join the presentations from the link below. **Link to join presentations: https://eu.bbcollab.com/guest/75bc1aa1370444dfa5664e4bd32e3b41**

Time	Location: Fırat University Congress Center
08:30-10:00	**I. Parallel Session for Face-Face Oral Presentations and I. Parallel Session for Online Oral Presentations**
10:00-10:30	**Coffee Break**
10:30-12:00	**II. Parallel Session for Face-Face Oral Presentations and II. Parallel Session for Online Oral Presentations**
12:15-13:30	**Lunch (Fırat University Social Center)**
13:30-14:00	**Coffee Break**
14:00-15:30	**III. Parallel Session for Face-Face Oral Presentations and III. Parallel Session for Online Oral Presentations**
15:30-16:00	**Coffee Break**
16:00-17:15	**IV. Parallel Session for Face-Face Oral Presentations and IV. Parallel Session for Online Oral Presentations**
18:00-22:00	**Dinner (Elazig Special Provincial Administration)**

I. PARALLEL SESSION *(Location: Fırat University Congress Center)*

COMPUTER ENGINEERING
Mimar Sinan Hall
Chairman: Prof. Dr. Bedri OZER

Time		Paper ID		
	08:30-08:45		103	High-Performance Spyware Classification with Wavelet Transform Features **Murat YAVUZ, Eren ÖNDER**
	08:45-09:00		71	A Hybrid Convolutional Neural Networks and Hu Moments-Based Approach for Automated Textile Defect Detection **Ethem Sefa KÜÇÜKYILMAZ, Erhan AKIN, Alper DİKTAŞ**
	09:00-09:15		119	Detecting Street Signs for Visually Impaired People: A Yolov8 and Federated Learning-Based Approach **Merve Sinem KARAHAN, Mehmet KARAKÖSE, Yaren BAYDENİZ, Eray HANOĞLU**
	09:15-09:30		126	A Deep Learning Based Application for Deepfake Video Detection **Lizge BOZKURT, Onur TOKEL, Emirhan ENİSOĞLU, Niyazi Furkan BAR, Hasan YETİŞ, Mehmet KARAKÖSE**
	09:30-09:45		152	A Hybrid Quantum Federated Learning Approach for Image Classification **Niyazi Furkan BAR, Mehmet KARAKÖSE**
	09:45-10:00		161	Artificial Intelligence Design Paradigms: Review of AI-Native and Artificial General Intelligence (AGI) Systems **Merve YILMAZER, Mehmet KARAKÖSE**

BIOENGINEERING
Yusuf Has Hacip Hall
Chairman: Prof. Dr. Hamdi Soner ALTUNDOĞAN

Time		Paper ID		
	08:30-08:45		124	From Tradition to Future: The Economic, Ecological and Cultural Importance of Natural Dye Plants in Elazığ Province **Nevzat DOĞAN, İnanç ÖZGEN**
	08:45-09:00		129	Lignin Recovery and Characterization from the Liquid Obtained by the Organosolv Process of MDF Dust **Kübra İNÇ, Hamdi Soner ALTUNDOĞAN**
	09:00-09:15		184	Faunistic Contribution to Turkish Cicadellidae: First Record of Frutioidia (Frutioidia) bisignata (Mulsant & Rey, 1855) in Bingöl **Ceyhan SÖNMEZ, İnanç ÖZGEN**
	09:15-09:30		-	The Use of Algae in Agriculture **Siham MEÇİK, Inanç OZGEN**
	09:30-09:45		188	A New Record of the Masarine Wasp Celonites rugiceps (Hymenoptera: Vespidae, Masarinae) from Bingöl Province, Turkey **Ceyhan SÖNMEZ, İnanç ÖZGEN**
	09:45-10:00		-	Dye Economy in Endemic and Medicinal Plants: An Analysis Based on Isatis, Reseda, and Rubia **Nevzat DOĞAN, İnanç ÖZGEN**

CIVIL ENGINEERING
İbn-i Sina Hall
Chairman: Prof. Dr. Baha Vural KÖK

Time		Paper ID		
	08:30-08:45		84	Effect of reactive polymer on high temperature performance of crumb rubber modified bitumen **Tuba BİNGÖL, Baha Vural KÖK**
	08:45-09:00		78	Investigation of fracture parameters of lime-pumice mortars **Erkin EREN, Ragip İNCE**
	09:00-09:15		81	An Alternative SCB Test for Fracture Analysis of Asphalt Concretes **Buğrahan Fatih FURTANA, Ragip İNCE**
	09:15-09:30		86	Effect of ethylene-propylene-diene-monomer addition on rheological properties of bitumen **Kader YILDIRIM, Baha Vural KÖK, Ahmet Münir ÖZDEMİR**
	09:30-09:45		92	Barrette Pile Foundations and Application Principles: A Case Study of the Çeşmeli–Kızkalesi Highway **Ahmet ALTUNBEY, Mesut GÖR, Rahim Khan NASERY, Kübra SERTKAYA**
	09:45-10:00		85	Effect of isocyanate and crumb rubber on stability properties of bituminous mixtures **Furkan YILDIRIM, Baha Vural KÖK**

	MECHANICAL ENGINEERING Kasgarli Mahmud Hall Chairman: Prof. Dr. Nevin ÇELİK			
Time	08:30-08:45	**Paper ID**	118	Design and Energy Efficiency of Nearly Zero Energy Buildings **Ersan ŞAHİN, Sinan KAPAN, Nevin ÇELİK**
	08:45-09:00		133	Production of Functionally Graded Composite Materials by Vacuum Infusion Method and Investigation of Their Impact Behavior **Ayşe Nur BAKIRCI , Mustafa GÜR, Mete Onur KAMAN, Serkan ERDEM, Mehmet Fatih SAHAN**
	09:00-09:15		186	Current Development of Soft Grippers Used in Robotic Applications **Gökhan GÜNEŞ, Murat ŞEN**
	09:15-09:30		134	Machine Learning-Based Prediction of Key PVT Parameters: A Comparison with Classical Regression **Kamil Neyfel ÇERÇİ, Sümeyye Büşra DURMAZ, Çağrı KAYMAK, Ebru AKPINAR**
	09:30-09:45		173	Effect of surface roughness on average heat transfer in jet impingement cooling **Celal KISTAK, Ali TAŞKIRAN, Nevin ÇELİK**
10:00-10:30				**COFFEE BREAK**

II. PARALLEL SESSION
(Location: Fırat University Congress Center)

	CIVIL ENGINEERING Mimar Sinan Hall Chairman: Prof. Dr. Ragip İNCE			
Time	10:30-10:45	**Paper ID**	138	Slope Stability Analysis Using the Limit Equilibrium Method **Kübra BULUT, Zekai ANGIN, Hakan ERSOY**
	10:45-11:00		87	Effect of Damping Ratio on Seismic Response of a Reinforced Concrete Building Using Nonlinear Time History Analysis **Burak ÇAKIL, Ozan İNCE, Ömer Faruk TAŞ, Ömer Faruk OSMANLI, Muhammet KARATON, Erkut SAYIN**
	11:00-11:15		88	Evaluation of Ground Motion Attenuation Relationships: Case Study of the 2023 Kahramanmaraş Earthquakes in Elazığ, Türkiye **Ömer Faruk OSMANLI, Muhammet KARATON, Burak ÇAKIL, Ömer Faruk TAŞ, Erkut SAYIN, Ozan İNCE**
	11:15-11:30		193	A Preliminary Experimental Investigation on the Compressive Strength of Fiber-Reinforced Polylmer (FRP) Reinforced Concrete Specimens **Ömer Faruk DEMİRCİ, Esra TUĞRUL TUNÇ**
	11:30-11:45		190	From Debris to Production: The Effect of Aggregates Obtained from Earthquake Debris on Concrete Performance **Elifnur AĞAOĞLU, Esra TUĞRUL TUNÇ**
	11:45-12:00		194	Experimental and Analytical Investigation of Flow Coefficient in Triangular Cross-Section Side Weirs **Mustafa TUNÇ, Muhammet Erdem URHAN**
	CHEMICAL ENGINEERING Yusuf Has Hacip Hall Chairman: Prof. Dr. Gülbeyi DURSUN			
Time	10:30-10:45	**Paper ID**	5	Production and Characterization of Chitosan-TiO_2 Composite Beads **Nuri BOZKURT, Gamze SAK, Şeyda TAŞAR, Gülbeyi DURSUN**
	10:45-11:00		-	Thermochemical Valorization of Microalgal Biomass: Insights into Torrefaction and Pyrolysis Pathways for Sustainable Bioenergy Production (Mini – Review) **Gülşah YILDIZ, Şeyda TAŞAR, Elif KARDAŞ, Melek YILGIN**
	11:00-11:15		74	The Role of Activated Carbon in Supercapacitor Technology **Mohamad Obeid ALABİAD, Şeyda TAŞAR, Neslihan DURANAY**
	11:15-11:30		33	Risk Assessment in Limestone Quarries Using Fine–Kinney Method: Occupational Health and Environmental Considerations **Vedat KARAHAN, Ercan AYDOĞMUŞ**
	11:30-11:45		62	Behavior of Sodium Bentonite in Acidic and Alkaline Environments: Modeling Filtrate Properties with Machine Learning **Fatih KAYA, Umay HALİSDEMİR, Şeyda TAŞAR, Beyda TAŞAR, Gülbeyi DURSUN**
	11:45-12:00		66	Modeling of Biochar Production Process Efficiency from Tea Pulp and Almond Outer Shell Using Machine Learning Methods **Şeyda TAŞAR, Beyda TAŞAR, Yalew Woldeamanuel SITOTAW**

ARTIFICIAL INTELLIGENCE AND DATA / COMPUTER ENGINEERING İbn-i Sina Hall Chairman: Prof. Dr. İlhan AYDIN				
Time	10:30-10:45	**Paper ID**	165	A Particle Swarm Optimization Approach to Federated Bearing Fault Diagnosis **Musa YENİLMEZ, İlhan AYDIN**
	10:45-11:00		110	Autonomous Unmanned Aerial Vehicle Application for Real-Time Wounded Detection Based on YOLOv5 **Dilan Nur DEMİR, Buse EROL, Mustafa KARA**
	11:00-11:15		159	Artificial Intelligence Based Waste Classification and Guidance System **Zinnet AYDIN, Canan KOÇ, Fatih ÖZYURT**
	11:15-11:30		163	Development of a Mobile Application Supporting Sustainable Living Habits for Individual Carbon Footprint Tracking **Fatma Nur KULLAP, Hicran AKTAŞ, Canan KOÇ, Fatih ÖZYURT**
	11:30-11:45		179	Artificial Intelligence-Assisted Image Processing Models for Disease Detection in Wheat Plants **Miraytuğ ŞEKER, Zeynep Miray AKKAN, Mehmet ARZU**
	11:45-12:00		-	Sentiment Analysis of Turkish Song Lyrics Using Machine Learning Algorithms **Merve ÇALOĞLU, Recep GÜLTER, Mehmet ARZU, Mahmut KAYA, Muhammed Emre ÇOLAK**
ELECTRICAL AND ELECTRONICS ENGINEERING Kasgarli Mahmud Hall Chairman: Prof. Dr. Arif GÜLTEN				
Time	10:30-10:45	**Paper ID**	125	Fuzzy Logic Controlled Regenerative Braking for Electric Vehicles: Energy Recovery and Driving Safety **Gamze UYGUR, Arif GÜLTEN**
	10:45-11:00		154	Electric Field Estimation in High Voltage Ceramic Insulator Using Deep Learning and Random Forest **İrem GÖRGÖZ, Mehmet CEBECİ**
	11:00-11:15		148	KS-Net: Multi-layer network model for determining the rotor type from motor parameters in interior PMSM motors **Kıvanç DOĞAN, Ahmet ORHAN**
	11:15-11:30		167	An Application of Face Recognition Authenticated Video Recording Process in Embedded System **İbrahim Fettah DEMİRBAĞ, Barış KARAKAYA**
	11:30-11:45		181	An Autonomous Aerial Surveillance System for Early Detection of Wildfire Anomalies Using Smart Sensor Integration **Ebru KARAKÖSE, Hazar Diyar SARİ, Emirhan GÜLKIRAN, Ertuğrul MERT**
	11:45-12:00		142	Modernization of the refueling probe with an electromagnetic magnet **Ebru KARAKÖSE, Gülşah AYTEMİZ, Mustafa BAŞTÜRK, Ömer Faruk OĞUZ**
12:15-13:30		**LUNCH (Fırat University Social Center)**		
13.30-14.00		**COFFEE BREAK**		

III. PARALLEL SESSION
(Location: Fırat University Congress Center)

MECHATRONICS / CHEMICAL ENGINEERING
Mimar Sinan Hall
Chairman: Prof. Dr. Fethi KAMIŞLI

Time		Paper ID		
Time	14:00-14:15	**Paper ID**	76	Thermal Convection Zone Detection for Glider Soaring Control via Seven-Class Cloud Type Classification Using Swin Transformer on Ground-Based Images **Beyda TAŞAR, Orhan YAMAN, Ahmet Burak TATAR, Oğuz YAKUT**
	14:15-14:30		32	Water Sustainability **Umay HALİSDEMİR, Fatih KAYA**
	14:30-14:45		77	FireStageNet: A Transformer-Based Deep Learning Approach for Image-Based Fire Stage Classification **Beyda TAŞAR, Orhan YAMAN, Ahmet Burak TATAR, Alper Kadir TANYILDIZI**
	14:45-15:00		127	Chemical Characterization of Lignocellulosic Biomass for Sustainable Biofuel Production **Gizem ÖZER, Neslihan DURANAY, Şeyda TAŞAR**
	15:00-15:15		130	Green Synthesis of Silver Nanoparticles from Walnut Shell Extract and Their Comparative Performance in PLA/Epoxy and PLA/PEG Biocomposites **Buket ERZEN, Mukaddes KARATAŞ, Ercan AYDOĞMUŞ, Ramazan ORHAN**

ARTIFICIAL INTELLIGENCE AND DATA ENGINEERING
Yusuf Has Hacip Hall
Chairman: Doç. Dr. Mustafa ULAŞ

Time		Paper ID		
Time	14:00-14:15	**Paper ID**	153	Disease Prediction Based on Medical Symptoms: A Comparative Study of Machine Learning Models **Fatma Zehra ÇELİK, Mehmet ARZU, Mahmut KAYA, Muhammed Emre ÇOLAK**
	14:15-14:30		156	Customer Churn Prediction in Telecom: A Comparative Machine Learning Approach Using IBM Telco Dataset **Mehmet Hanifi IŞIK, Abdulsamet KARAYEL, Mehmet ARZU, Mahmut KAYA**
	14:30-14:45		140	Explainable Diabetes Prediction in a Large-Scale Clinical Dataset Using TabNet and SHAP **Keremcan KARAKAYA , Mustafa ULAŞ**
	14:45-15:00		166	Sentiment Analysis on Book Reviews Using Transformer-based Approaches **Efe Batın SEÇKİN , Mustafa Berkay DEMİR, Mehmet ARZU, Mahmut KAYA**
	15:00-15:15		-	A gentle introduction to building fintech forecasting models based on financial ratios **Mustafa KANBER, YUNUS SANTUR**
	15:15-15:30		137	The Production of Fibres for Mineral Wool by Utilization of Olivine Extracted as A by-product of Chromite Ore **Gökhan BAŞMAN, Akın ODABAŞI, Tuğçe ERGÜL, Cengiz YAŞİN, Hülya KAFTELN ODABAŞI**

METALLURGICAL AND MATERIALS ENGINEERING
İbn-i Sina Hall
Chairman: Prof. Dr. M. Deniz TURAN

Time		Paper ID		
Time	14:00-14:15	**Paper ID**	-	Direct oxidation of methane into monooxigenates on a biomimetic catalyst **Gulshan Nahmatova , Latifa Gasanova, Tofik Nagiev**
	14:15-14:30		151	Mechanical Stirrer-Assisted Production of FeCl3 from by Using HCl and Mill Scale **Hasan NİZAMOĞLU, M. Deniz TURAN, Zeynel Abidin SARI**
	14:30-14:45		175	Photochemical Oxidation and Radical-Driven Processes in Hydrometallurgical Leaching: An Overview **Zeynel Abidin SARI, M. Deniz TURAN, Hasan NİZAMOĞLU, Şeyda BALIKÇI, Hakan AYHAN**
	14:45-15:00		-	Selectively recovering Fe, Al, Ti, V and Ga from alunite mud by a combination process of sulfation roasting and water leaching **Arif Heydərov , Mehmet Deniz Turan, Pərvanə Babayeva**
	15:00-15:15		-	Novel Chitosan–PVA-Based Hydrogels for Efficient Adsorption of Heavy Metal Ions from Aqueous **Rana Khankishiyeva**

Time		**Paper ID**		**ENGINEERING** **Kasgarli Mahmud Hall** **Chairman: Prof. Dr. İnanç ÖZGEN**
	14:00-14:15		185	Use of Lavandula angustifolia M. Plant in Plant Protection **Aslıhan HAROĞLU ORHAN, İnanç ÖZGEN**
	14:15-14:30		199	Bisphenol A (BPA): Properties, Environmental Impact, Health Risks, and Regulatory Actions **Meki EFE, Sibel ASLAN**
	14:30-14:45		22	Development of a Rheological Model for Drilling Muds and Determining Their Rheological Properties **Fethi KAMIŞLI**
	14:45-15:00		23	Heat Transfer in A Corrugated Conduit Filled with Porous Material **Fethi KAMIŞLI, Musaa ALGIBARA**
	15:00-15:15		115	Removal of Dyestuff from Aqueous Solutions using Magnetic Cerium Particles **Sadiye KARATAŞ, Nagihan KARAASLAN AYHAN**
	15:15-15:30		113	Photocatalysis Applications of MnOx-Decorated Biphasic Nanostructures: Methylene Blue Model **Sena Nur KÖKSAL, Anıl KARATEPE, Ayşegül Ülkü METİN**
	15:30-15:45		40	Investigation of Experimental and Theoretical Spectral Data of 2-Tridecyl-4,5-Dihydro-1H-Imidazole **Murat GENÇ, Zehra DOĞRU ALPAYDIN, Vedat KARAHAN, Zuhal KARAGÖZ GENÇ**
	15:45-16:00		41	In silico molecular docking of 2-Tridecyl-4,5-Dihydro-1H-Imidazole for possible treatment of Alzheimer's disease **Murat GENÇ, Zehra DOĞRU ALPAYDIN, Vedat KARAHAN, Zuhal KARAGÖZ GENÇ**
	16:00-16:15		57	Investigation of the Potential Activity of 3-((1H-benzotriazol-1-yl)methyl-4-ethyl-1H-1,2,4-triazol-5(4H)-thione Against MCF-7 and L1210 Cancer Cells **Murat GENÇ, Umut İbrahim OĞUZ, Vedat KARAHAN, Zuhal KARAGÖZ GENÇ**
15:30-16:00				**Coffee Break**

				I. PARALLEL SESSION
				(Location: Fırat University Congress Center)
				COMPUTER ENGINEERING **Farabi Hall** **Chairman: Assoc. Prof. Dr. Ahmet ÇINAR**
Time	08:30-08:45	**Paper ID**	**14**	Detection Of Satellite Network Anomalies With XOR Based Encryption And Transformer Assisted Approach **Nida CANPOLAT, Şengül DOĞAN, Mehmet KARAKÖSE, Türker TUNCER**
	08:45-09:00		**25**	Bellman-Ford and SMOTE Based Optimization Method in Hyperspectral Image Classification **Yücel DEMİREL, Orhan YAMAN, Mehmet KARAKÖSE**
	09:00-09:15		**6**	A Pharmaceutical Stock Forecasting Approach: Comparative Analysis of Statistical and Machine Learning Models **Osman Furkan KÜÇÜK, Mehmet KARAKÖSE, İlker GÜRELLİ, Yaren BAYDENİZ, Eray HANOĞLU**
	09:15-09:30		**15**	Blockchain based method for secure data storage in digital identity systems **Nida CANPOLAT, Hasan YETİŞ, Mehmet KARAKÖSE**
	09:30-09:45		**38**	Classification of liver disease using biochemical data: a machine learning approach **Ebrar TURUDU, Gülşah GÜNDÜZTEKİN, Gülşah KARADUMAN**
	09:45-10:00		**45**	Development of a docker-based demand forecasting system integrated with continuous integration and continuous deployment automation using Prometheus and Grafana **Mehmet Mert MENEVŞE, Mehmet KARAKÖSE**

Link to join presentations: https://eu.bbcollab.com/guest/b06f94f3777242f8a164148229c853c1
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				II. PARALLEL SESSION
				(Location: Fırat University Congress Center)
				COMPUTER ENGINEERING **Farabi Hall** **Chairman: Prof. Dr. Mete Onur KAMAN**
Time	10:30-10:45	**Paper ID**	**48**	Pneumonia Detection in Chest X-Ray Images via Blockchain-Enabled Federated Learning **Ayşe Şevval URAL, Hasan YETİŞ, Mehmet KARAKÖSE**
	10:45-11:00		**123**	MediFind: An Interactive Mobile Application for Drug Information Access and Drug Compliance **Fatih ALTUNTAŞ, Elif Ezgi ANALIOĞLU, Erdem ATİK, Mehmet KARAKÖSE**
	11:00-11:15		**114**	An Artificial Intelligence-Based Fraud Detection Approach for Securing Blockchain Networks **Kerem Can GÜNDÜZ, Hasan YETİŞ**
	11:15-11:30		**132**	Enhanced Semantic Segmentation of Microscopic Rock Images Using DeepLabV3+ with SE Attention and Superpixel-Aided Labeling **Hüseyin DERVİŞ, İlhan AYDIN, Taha Kubilay ŞENER, Ayşe Didem KILIÇ**
	11:30-11:45		**149**	Quantum-Enhanced Algorithmic Frameworks for Autonomous Vehicles: A Systematic Review and Analysis Emerging Approaches **Seda Nur GÜNGÖR, Mehmet KARAKÖSE**
	11:45-12:00		**150**	Turkish Regulatory QA: A Hybrid BM25 and Pretrained Transformer Retrieval Framework with Label-Guided Question-Answering **İlhan AYDIN, Zeynep KARACA**

Link to join presentations: https://eu.bbcollab.com/guest/b06f94f3777242f8a164148229c853c1
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colspan="5"	*II. PARALLEL SESSION
(Location: Fırat University Congress Center)
SOFTWARE ENGINEERING **Computer Engineering Class** **Chairman: Assoc. Prof. Dr. Seda ARSLAN TUNCER**
Time	10:30-10:45	**Paper ID**	-	Prize Collecting Vehicle Routing Problem for Flight Catering Control Optimization **Ahmet Cihat BAKIR / İmran TOPRAK**
	10:45-11:00		-	Flightmax - Airline Food Optimization **Adem Erdem KURT, Sena YILMAZ, Dr. Emre ATLIER OLCA**
	11:00-11:15		-	An MILP Model for Peer Evaluation Survey Assignment Optimization **Ahmet Zahit Aslan**
	11:15-11:30		-	Innovative Approach in DMS Acquisition: Artificial Intelligence and Chatbots **Erbaycan KILIÇKAYA**
	11:30-11:45		-	Fabric Defect Detection Using Synthetic Defect Augmentation and Deep Learning **Zeynep Sönmez, Mert İncidelen**
	11:45-12.00		-	Fuel Optimization in Flight Routes Using Machine Learning and Graph-Based Methods **Burak BEYAZIT, Eyüp Emre ÜLKÜ**
Link to join presentations: https://eu.bbcollab.com/guest/b366c588cf5d428996bbcaa27520df54 **After entering the link, you can upload your presentations. We kindly ask you to enter 15 minutes before your presentation time.**

III. PARALLEL SESSION
(Location: Fırat University Congress Center)
COMPUTER ENGINEERING **Farabi Hall** **Chairman: Prof. Dr. Özge HANAY**
Time	14:00-14:15	**Paper ID**	162	Triple Teacher Framework with Exponential Moving Average for Screw Anomaly Detection **Emre GÜÇLÜ, İlhan AYDIN, Erhan AKIN**
	14:15-14:30		164	Quantum Computing in Mobile Networks: A Comparative Analysis **Çağatay Umut ÖĞDÜ, Mehmet KARAKÖSE**
	14:30-14:45		-	Green Buildings and Environmental Problems **Fatih YILMAZ, Gokhan Onder ERGUVEN, Numan YILDIRIM**
	14:45-15:00		104	MRI-Based Brain Tumor Classification Using Deep Learning Models **Rawan ABOALQARAYA, Fatih ÖZYURT, Canan KOÇ, Esra YÜZGEÇ ÖZDEMİR**
	15:00-15:15		158	Swarm UAV-Assisted System Design for Border Protection and Threat Detection **Ebru KARAKÖSE, Yunus Emre ERGİN, Hesna ÇATAL, Sadık ÖZDEN**
	15:15-15:30		42	Efficiency of Energy Management in Unmanned Aerial Vehicles: An Examination within The Framework of Current Approaches **Müslüme MUTLU, Ebru KARAKÖSE**
	15:30-15:45		171	Conceptual Integration of Machine Learning in AI-Directed Soil Stabilization for Sustainable Ground Improvement **Abiola Ayopo ABİODUN**
	15:45-15:50		178	A New BERT Based Hate Speech Detection Method Using Contrastive Learning **Turan Göktuğ ALTUNDOĞAN, Mehmet KARAKÖSE**
Link to join presentations: https://eu.bbcollab.com/guest/b06f94f3777242f8a164148229c853c1 **After entering the link, you can upload your presentations. We kindly ask you to enter 15 minutes before your presentation time.**

III. PARALLEL SESSION
(Location: Fırat University Congress Center)

METALLURGICAL AND MATERIALS ENGİNEERING Computer Engineering Class Chairman: Assist. Prof. Dr. Selçuk KARATAŞ			
Time	14:00-14:15	**Paper ID**	172	Effect of TiC on Microstructure and Hardness in Laser Cladding with Fe-Cr-C/TiC Powder Mixtures **Asuman Merve EKİCİ, Mehmet EROĞLU, M. Sabri GÖK, Rıdvan YAMANOĞLU**
	14:15-14:30		174	Effect of Chromium and Carbon on Wear Properties of Laser Coated Low Carbon Steels **Ceren ÖZCAN, Mehmet EROĞLU**
	14:30-14:45		177	Effect of Nitriding Duration on Microstructure and Wear Behavior of Two Different Steels **Emir KARAÇAM, Amir MOTALLEBZADEHA, Mehmet EROĞLU**
	14:45-15:00		75	Experimental and Artificial Intelligence Methods for Investigating the Effects of Cell Temperature on Panel Performance in Photovoltaic Solar Panels **Gizem Gül KATIRCIOĞLU, Mehmet DAŞ, Ebru AKPINAR**
	15:00-15:15		-	Chemical aspects of the vanadium (V)-oxide extraction process from alunite ore **Arzu Osmanova**
	15:15-15:30		131	Energy Efficiency İmprovement Based on Smart Grid: A Simulation Assessment **Ilkin BALAZADE, Rasul AHMADOV**
	15:30-15:45		-	A method of extracting arsenic and cobalt from cobalt ore waste **Muradova Aysel , Heydarov Arif , Alyshanly Gulnar**
	15:45-16:00		-	Investigation of kinetic regularities of asbestos waste leaching processes **Temirgali I., Turan M.D., Baigenzhenov O.**
	16:00-16:15		183	Effect of Boron on the Microstructure and Wear Behavior in Laser Surface Coating of SAE 4140 Steel **Emir KARACAM, Mehmet EROGLU, Amir MOTALLEBZADEH**

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IV. PARALLEL SESSION
(Location: Fırat University Congress Center)

CIVIL ENGINEERING Farabi Hall Chairman: Prof. Dr. Muhammet KARATON			
Time	16:00-16:15	**Paper ID**	82	Evaluation of the Rheological Behavior of Pure and SBS-Modified 70/100 Batman Bitumen under Dynamic Shear Conditions **Ahmet Münir ÖZDEMİR,Erkut YALÇIN, Mehmet YILMAZ**
	16:15-16:30		143	Effects Of Sodium Hydroxide On The Unconfined Compressive Strength Of Low Plasticity Soils **Tacettin GEÇKİL, Talha SARICI, Özge Nur ÇETKİN**
	16:30-16:45		144	Examination Of The Behavior Of Soil Stabilized With Silica Fume **Tacettin GEÇKİL, Talha SARICI, Özge Nur ÇETKİN**
	16:45-17.00		100	Rheological Properties of Permeation Grout Using Sodium Silicate–Boric Acid Mixtures **Melih UYSAL, Eyübhan AVCI, Emre DEVECİ**
	17:00-17:15		189	The Role of Renewable Energy in the Global Energy Transition and Türkiye's Strategic Position **Ayça AYTAÇ**
	17:15-17:30		182	Design and Calculations of Rocket Launching Mechanism Using Centrifugal Technique **Tolga MERTYÜZ, Oğuz YAKUT**

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colspan="5"	*IV. PARALLEL SESSION
(Location: Fırat University Congress Center)
ENGINEERING **Computer Engineering Class** **Chairman: Prof. Dr. Cevdet AKOSMAN**
Time	16:00-16:15	**Paper ID**	147	Determining the Optimal Stator Slot–Rotor Pole Combination for Brushless DC and Permanent Magnet Synchronous Motor **Hayatullah NORY, Ahmet ORHAN, Cansu AKSOY**
16:15-16:30	90	Road Surface Crack Detection Using Deep Learning in Smart Cities **Fatmanur POLAT, Muhammed Emre ÇOLAK, İrfan KILIÇ**
16:30-16:45	187	A Hybrid Model Based on Image Processing for Violence Detection **Yunus Emre SEYYAR**
16:45-17.00	170	Critical Success Factors of Lean Manufacturing Tools: The DEMATEL Method based pq-Cubic Quasi rung Orthopair Fuzzy Sets **Veysel ÇOBAN**
17:00-17:15	-	Synthesis of 1-(4-methoxybenzoyl)-4-(naphthalen-1-yl) thiosemicarbazide Compound and Investigation of its Experimental and Theoretical Spectra **Esra TOK, Murat GENÇ**
Link to join presentations: https://eu.bbcollab.com/guest/b366c588cf5d428996bbcaa27520df54 **After entering the link, you can upload your presentations. We kindly ask you to enter 15 minutes before your presentation time.**