

9th International Artificial Intelligence and Data Processing Symposium, Online (Türkiye-Malatya & Republic of Korea-Seoul)

IDAP 2025 Symposium Technical Program

06 Sep 2025	SATURDAY – Keynote Speaker Session - 1	
09:00-10:00	Speaker: Özgür Umut Vurgun Key Points About: Artificial Intelligence Applications in Defense Industry	
06 Sep 2025	SATURDAY – Keynote Speaker Session - 2	
13:00-14:00	Speaker: Prof. Dr. Ahmet Turan ÖZDEMİR Key Points About: Lithium-ion Battery Production Technology and Turkey's Position	
07 Sep 2025	SUNDAY – Keynote Speaker Session - 3	
10:00-11:00	Speaker: Prof. Mohammed A. Al-masni Key Points About: AI Solutions for Data Limitations and Label Noise: Focus on Brain Tumor Segmentation in MRI	

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
CONTEMPORARY TECHNOLOGIES-I	CHAIR: Abdullah ATEŞ	Paolo L. Pacaldo, Junrie B. Matias, Jaymer M. Jayoma, Gleen A. Dalaorao, Clark Justine Gonzales, John Michael Cutamora
		Enhancing Cebuano-English Neural Machine Translation Using Pseudo-Labeling and Transformer Architectures
		Paolo L. Pacaldo, Junrie B. Matias, Jaymer M. Jayoma, Christopher C. Abalorio, Clark Justine Gonzales, Gleen A. Dalaorao
		Hybrid DeepFake Detection Using Xception and XGBoost with Bayesian Optimization
		Paolo L. Pacaldo, Emmanuel Patatag, Jaymer M. Jayoma, Almarie Maestrado, Aljean Cadaves, Roland P. Abao
		MyIntern: A Centralized Role-Based Web Platform for Internship Coordination and Job Matching in Higher Education
		Clark Justine Gonzales, Ramil Regen Sanchez, Jemuel Gen Medroso, Prince Lloyd Cagampang
		Leveraging XGBoost, RoBERTa, and Ensemble Techniques for Hate Speech Detection in Tagalog
		Gleen A. Dalaorao
		Benchmarking Automated Annotation Methods for Crisis Tweet Informativeness: A Gold Label Evaluation on the CrisisLex Dataset
CONTEMPORARY TECHNOLOGIES-II	CHAIR: Muhammed TALO	Gleen A. Dalaorao
		Machine Learning-Based Classification of Crisis-Related Tweets: A Comparative Study Using Logistic Regression, Random Forest, and BERT
		James Earl D. Cubillas, Angelo A. Galope, Aubriel A. Bolotaolo, Le Anne L. Durango
		iTOUR: AR-Based Guest Assistance System for Caraga State University-Main Campus
		James Earl D. Cubillas, Liezyl Jane F. Claros, Kaye O. Dacua, Christine Jay A. Montilla
		A Deep Learning-Based Modular Framework for Robust License Plate Recognition in Diverse Visual Environments
		James Earl D. Cubillas, Francis John Saul M. Tin-ao, John Michael F. Cutamora, Kimberly Ann B. Palaran
		PAMANA: Digital Preservation and Virtual Experience of Cultural Dances of Caraga
		Mark Phil Pacot, Jayno Juventud, Gleen A. Dalaorao
		Hybrid Multi-Stage Learning Framework for Edge Detection: A Survey

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
CONTEMPORARY TECHNOLOGIES-II	CHAIR: Muhammed TALO	Abdalla Shazly, Abbas Mohammed, Abdulkhalek Al-Fakih, Mohammed Al-masni
		Are CNNs Still the Benchmark to Beat? A Comparative Evaluation of Convolutional, Transformer, and Diffusion-Based Architectures for 3D Medical Image Segmentation
		Dino Rey V. Barliso, Gracylejohn B. De Jesus, Alyssa Kyla F. Monton, Mark Phil B. Pacot, Regien B. Nakazato, Takeyasu V. Nakazato
		Analysis of Correction Techniques for Perspective Distortion Using Image Processing Domain
		Jed Edwin L. Ramos, Blondie T. Sanchez, Junell T. Bojocan, Erickson A. Tacda
		Real-Time Tray-Level Egg Fertility Detection on Raspberry Pi Using YOLOv5 and Custom LED Backlighting
		Arian Jay E, Prisco, Drandreb Reyes, Cristina Repollo, Elbert S. Moyon
		Redesigning the CSU-Rent-A-Bike Platform for Enhanced HCI Compliance: A User-Centered Evaluation and Iterative Design Approach
		Bernie Cherry D. Rante, Kurt P. Reserva, Kylene Angela M. Rocaes, Elbert S. Moyon
		Redesigning MyAneco Using Human-Computer Interaction Guidelines: A User-Centered Approach to Improving Usability and Accessibility
CONTEMPORARY TECHNOLOGIES-III	CHAIR: Muhammed TALO	Thuc-Minh Bui, Quyet D. NGUYEN, Da-Thao Nguyen, Huong Le Thi, Trang Nguyen Thi Thu, Thanh-Phuong Nguyen
		Failure Analysis For Diesel Generator On Marine Ship Based Convolutional Neural Network
		Thuc-Minh Bui, Quyet D. NGUYEN, Huy Nguyen Xuan, Huong Le Thi, Trang Nguyen Thi Thu, Thanh-Phuong Nguyen
		Solar Power Prediction On Cruise Ship With Long Short-Term Memory Model
		Blondie T. Sanchez, Jeanette D. Sanchez, Nelson M. Inocente, Jireah Jean D. Magsayo
		A Comparative Study of Tri-ESP32-Based Smart Sliding Gate Automation Against Existing RFID and Single-Node Systems
		Novi Adintya Putra, Ntivuguruzwa Jean De La Croix, Tohari Ahmad, Hudan Studiawan, Kambombo Mtonga, Md. Sagar Hossen
		Extending iLEAPP Forensic Tool with DJI Mavic Flight Parser

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
ALGORITHMS & HEURISTIC METHODS-I	CHAIR: Mucahit SOYLU	Ela Demirci, Emre Athier Olca
		A Review of Grover's Search Algorithm: Applications and Modifications
		Ege Erberk Uslu, Zuleyha Akusta Dagdeviren, Orhan Dagdeviren
		Metaheuristic Algorithms for Cluster Head Selection in Heterogeneous Drone Networks
		Sibel ARSLAN
		A Multitask Multi-Gene Genetic Programming Approach for Symbolic Regression with Shared and Task-Specific Representations
		Erkan Karagöz, Selman Yakut
		Malatya Centrality Algorithm and Graph Colouring Based Effective and Efficient Eight Queen Problem Solution Method
ALGORITHMS & HEURISTIC METHODS-I	CHAIR: Mucahit SOYLU	Kamil Çölbay, Orhan Engin
		Simulation-Based Analysis of Bus Scheduling Problem for Mixed Fleets: Effects of Flexibility Strategies on Delay Performance
		Tayfun ABUT
		Impedance-Based Control in Robot-Assisted Surgery via Harris Hawks Optimization-based Fuzzy Logic Controller
		Mehmet SAVRAN, Züleyha Akusta Dağdeviren, Hasan BULUT
		Graph-Based Byte Construction from Reusable Bits: Toward Resilient and Memory-Efficient Systems
		Mucahit SOYLU, Resul Daş
		Knowledge Graph Visualization: Methods, Interactivity and Practical Considerations

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
AI & HEALTHCARE-I	CHAIR: Selman YAKUT	İsmet Can Sezgin, Yaşar Daşdemir
		EEG-Based Cognitive and Emotional State Recognition in Virtual Reality Using Deep Learning
		Büsra Özkellekci, Bahar Hatipoglu Yilmaz
		EEG Spectrogram-Based Emotion Analysis: Insights from the KMED Dataset Using Deep Learning
		Ece Işık, Emrah Inan
		Aspect-based Medical Record Classification Using Large Language Model Guided Knowledge Graph
		Dilan Onat Alakuş, İbrahim Türkoğlu
		DBSCAN Based Object Localization with Ultrasonic Spherical Scanning
AI & HEALTHCARE-I	CHAIR: Selman YAKUT	Ekrem ÖZER, Esmâ GELMEZ, Gizem YILDIZ, Önder YAKUT
		A Cloud-Based Web Platform for Scoliosis Detection and Treatment Recommendation Using Yolov8 and Tomographic Imaging
		Fatma Tuana DOĞU, Mehmet ÖZTÜRK, Hülya DOĞAN
		Classification of Acute Kidney Injury Stage from Pathology Images Using Deep Learning Approaches
		Hatice Büşra Lülecî, Tunahan Çakır
		Personalized Metabolic Modelling Reveals Molecular Characteristics of Asymptomatic Alzheimer's Disease
		Halime Sıla Özyurt
		Comparative Analysis of Machine Learning and Deep Learning Models for Heart Disease Prediction on Imbalanced Health Data

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
NATURAL LANGUAGE PROCESSING- I	CHAIR: Cengiz HARK	Serkan Savaş, İrfan Atabaş, Bernadett Revák
		User Experience Analysis for Mobile-Assisted Language Learning Through Gamification
		Ertürk Erdağı
		Comparative Performance of Monolingual and Multilingual Transformers Models in Turkish Text Classification
		Aybüke Gürer, Eser Sert
		Comparative Analysis of Machine Learning, Deep Learning, and Transformer-Based Models for Fake News Detection
		Zeynep Şebnem Üzmez, Sinem Akyol
		Multiclass Turkish Sentiment Classification on Turkish E-Commerce Reviews Using Transformer Models
		Oben ADAK, Çiğdem İnan ACI
		A Domain-Specific Turkish QA System for University Internship Regulations Using a Synthetic Context Approach
		Doğa Ülkü, Sevcan Emek
		Deepfake Detection and ToS Risk Analysis Using NLP: A Multimodal Framework
		Meryem Paşaoğlu, Furkan Göz
		Spoiler Detection in IMDb Reviews Using Embedding-Based Feature Extraction
		Muhammed Gülsoy, Akhan Akbulut
		A Comparative Evaluation of Transformer-Based Models for Abstractive Turkish News Summarization

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
MACHINE LEARNING & DEEP LEARNING-I	CHAIR: Furkan ÖZTEMİZ	Gökdeniz Yılmaz, Furkan Esad Köroğlu, Süleyman Eken
		A Smart Surveillance Approach for Monitoring PPE Compliance and Smoking Behavior in Waste Collection Workers
		Abdullah Şener, Burhan ERGEN
		Comparative Evaluation of Machine Learning Models for Gender Classification from Speech Signals
		Kübra Özdemirci, Cihat Öztürk
		Improving the Scalability of the p-Median Problem through Random Forest-Guided Variable Reduction
		İlker Gür, Ferhat Atasoy
		Predicting Happiness Index with Neural Network-Based Learning Algorithms
		Fatih Ahmet Sarıgül
		Generalizing Attitude Control Through Deep Reinforcement Learning for 3 Airplanes
		Ercan Gunbilek, Zuleyha Akusta Dagdeviren, Hasan Bulut
		A Framework for Link Prediction in Urban Road Networks Based on Graph Theory and Machine Learning
		Hakan Alp EREN, Özgür GÜLTEKİN
		Deep Vision Transformer for Grape Leaf Disease Detection with Class-Imbalance Awareness
		Nurullah Gulec, Cihat Ozturk
		Learning to Focus: Simplifying the p-Center Problem via XGBoost-Based Search Space Pruning

06 Sep 2025		SATURDAY	
10:00 - 13:00		Authors	Paper Title
NETWORKS & SECURITY-I	CHAIR: Ömer Faruk ALÇİN	Burcu Sanal, Erkan Güler, M. Talha Kakız, Tuğrul Çavdar	A Quantum Cryptographic Scheme for An Audio File Using Quantum Data Encoding and Quantum Permutation Pad
		Cansu AKYÜREK ANACUR, Mehtap Ülker, Özlem ŞEKER	Attack-Type Performance Analysis of ML-Based Anomaly Detection
		Ebtihal Ismail Enfes, Önsen Toygar	The Effect of Disguise and Makeup in Facial Recognition
		Bengu Cagla Sari, Ilhan Firat Kilincer	Hybrid Deep Learning Model for Memory-Based Malware Detection
		Berkso Ant Solmaz, Berkay Özçam, Mehmet Fatih Amasyalı, Emin İslam Tatlı	Büyük Dil Modellerinde Uyarlama Kaynaklı Güvenlik Açıklarının Giderilmesi
		Berkay ERTEM, Öznur ŞENGEL	Boosting IDS Accuracy with Random Forest and Selected Features on NSL-KDD Test-21
		Rukiye AKINCI HAZIR, Selen AYAS	Robust of SEViT and MedViTV2 Models Under MI-FGSM Attacks and the Effect of Adversarial Training Method
		Abdullah AKTAŞ, Ilhan Firat KILINÇER	Flowing Secure: Proactive AI for Cyberattack Detection in Water Systems
		Mahyar Teymournezhad, Ozgur Koray Sahingoz	Trends and Techniques in Android Malware Detection: A Comprehensive Survey

06 Sep 2025		SATURDAY	
10:00 - 13:00		Authors	Paper Title
APPLICATIONS-I	CHAIR: Teoman KARADAĞ	Mehmed Oğuz Şen, Fatih Okumuş, Adnan Fatih Kocamaz	Comparison of Task Distribution Methods for Blockchain-Powered Multi Robot Systems
		Muhammet Tahir Güneşer, Sefa Yunus Aksakal, Mehmet Akif Coşkunsu, Kerem Numan Çakır, Burhan Şahin	Designing an Interactive Glove with a Robotic Arm for Virtual Reality Education Applications
		Ahsennur USLU, Sara ALTUN GÜVEN	Deep White Balance Correction: Comparison with Traditional Methods and Devices
		Kubra Budancamanak, Ali Ozen	High Level Color Shift Keying Modulation for Visible Light Communication Systems
		Teoman KARADAĞ, Nisanur YILDIRAN, İsmail Can DİKMEN, Teymuraz ABBASOV	The Digital Age In Last Two Decades Hidden Cost Of Risen Mobile Connectivity From Minutes To Terabytes; Invisible Silent Rise Exposure to Electromagnetic Fields And Health Burden
		Gökçe Eylül Ünlü, Melis Yanık, Furkan Temizel, Wisam Elmasry	AI-POWERED ISTANBUL EARTHQUAKE FORESIGHT ANALYSIS
		İhsan Tuğal	Evaluating Solar and Wind Energy Efficiency in Muş Province Using Real Meteorological Data
		Tuğçe Kırteke, Veysel Aslantas	CSPNet Tabanlı Çoklu Odaklı Görüntü Birleştirme- CSPNet Based Multi-Focus Image Fusion
		Emre Sebatı YOLAL, Emir ASI, Güncel SARIMAN	HATE SPEECH DETECTION IN INSTAGRAM POSTS RELATED TO MONKEYPOX USING LANGUAGE MODELS

06 Sep 2025 SATURDAY		
10:00 - 13:00	Authors	Paper Title
APPLICATIONS-II	CHAIR: Kazım HANBAY	Gokhan Satilmis
		Loaded Disc Feeding Method for Radial Line Slot Antennas
		Omer Pektas, Orkan Murat CELIK, Murat KOSEOGLU
		System Identification Based Fractional Order Plant Realization on an FPGA
		Esra Sipahi Göksu, Öykü Muslu, Serhan Bulca, Gökhan İçen, Batuhan Zümbül, Serdar Gönülal, Asaf Karataş, Önder Demir, Buket Dogan, Kazim Yıldiz
		Technical Design and Performance Analysis of Centralized Product Catalog Management in Large Scale Telecommunication Systems: Turkcell CPCM Case
		Musa BEYTEKİN, Furkan ÖZTEMİZ
		Etkileşimli Sanal Karakterler ile Yapay Zeka Destekli Dil Öğrenme Uygulaması Arasındaki İletişim
APPLICATIONS-II	CHAIR: Kazım HANBAY	Hacer Sueda EFE, Gizem YILDIZ, Önder YAKUT
		FINDINTERNSHIP : AI Powered Internship Finding and Support Platform
		Hakan Uyanık, Erman Şentürk, Mehmet Köküm, Salih Taha Alperen Özçelik, Muhammed Halil AKPINAR, Abdulkadir ŞENGÜR
		Toplam Elektron İçeriği ve Uzay İklim Verileri Kullanılarak Transfer Öğrenme ile Deprem Öncüllerinin Analizi
		Şule Nur Çakır, Elif Varol Altay
		AI-Powered Application for Classifying Recyclable Materials
		Semih Kahveci, Erdiñ Avaroglu
		Underwater Image Enhancement Multi-Exposure Fusion Using Unsupervised Deep Learning

07 Sep 2025 SUNDAY		
11:00 - 13:30	Authors	Paper Title
MACHINE LEARNING & DEEP LEARNING-II	CHAIR: Kenan İNCE	Çetin Erçelik, Kazım Hanbay
		Panoramic Dental Segmentation with a Novel Approach Based on MONAI U-Net and Sliding Window Inference
		Çetin Erçelik, Kazım Hanbay
		Ship Detection in SAR Images Using CLAHE-Enhanced YOLOv8x
		HİKMET CANLI
		Evaluating the Semantic Clustering Power of LLMs on ERP Support Texts
		Hüseyin Yanık, Erdem Uysal, Hamza Erol
		Automated Detection and Classification of Durian Leaf Diseases Using Advanced Deep Learning Architectures
		Yusuf ŞİMŞEK, Mehmet Buğra BALCI, Mehmet ARZU, Mahmut KAYA, Yunus SANTUR
MACHINE LEARNING & DEEP LEARNING-II	CHAIR: Kenan İNCE	Multi-Class Sentiment Analysis with E-Commerce User Reviews: Comparisons of Classical and Deep Learning Applications
		Abdullah Talha Kabakuş, Arafat Şentürk
		A Comparative Evaluation of Open-Source Vision Language Models for Image Captioning
		Mustafa Yoluk, Ibrahim Bahcekapili, Omer Faruk Bahar, Kazim Yildiz
		Synthetic Scenes, Real Performance: Evaluating Object Detection Models Trained on Virtual Data
		Umran Bahadır, Bahar Hatipoğlu Yilmaz, Cemal Kose
		YOLOv8-Based Approach for Efficient Peak Frame Selection in Facial Expression Analysis
		Gamze Doğan Kızılluluk, Murat Alın
		A Hybrid Approach Based on Convolutional Neural Networks and Machine Learning for Soybean Seed Quality Classification

07 Sep 2025 SUNDAY		
11:00 - 13:30	Authors	Paper Title
CONTEMPORARY TECHNOLOGIES-III	CHAIR: Prof. Mughed A. AL-ANTARI	Kent T. Espejon, Jaymer M. Jayoma, Elber S. Moyon
		Q-Learning-Based Parameter Tuning of Alpha and Beta in Ant Colonization Algorithm and Inverse Ant Algorithm for Optimized Pathfinding
		Kent T. Espejon, Jaymer M. Jayoma, Rolanda C. Becerro Jr.
		Normalized Hybrid A* and IAA for Pathfinding in Weighted Grid Environments
		Edgardo Ricardo B. Sajonia Jr., Glenn V. Magwili
		Development of Computer-based Multi Scale Feature Entrenched Aortic Stenosis Detection Using Deep Learning and X-ray Coronary Angiographic Imaging
		Zydhann Linnar Putra, Ntivuguruzwa Jean De La Croix, Tohari Ahmad, Abdulati Jahbel, Kambombo Mtonga, Veronica Eugene Kannole
		ZLPBotDetect: Enhanced BotNet Classification using SMOTE and LightGBM
		Donna Lyn B. Castillo, Cris Jay Lord M. Eduarte, Christena D. Lariva, Mark Joseph Fabroquez
CONTEMPORARY TECHNOLOGIES-IV	CHAIR: Ahmet Arif AYDIN	An Embedded Computer Vision System with Image Processing for Aflatoxin Detection in Cacao Beans
		Jaybie T. Sanjorjo, Elroe D. Anunciado, Charlene O. Estenzo, Anthony J. Golapo, Alex A. Macalma
		Design and Development of FisherLink: A Solar-Powered VHF Radio with APRS and Integrated Database for Real-Time Location Tracking and SOS Messaging
		Hyunwook Kwon, Saied Salem, Mukhlis Raza, Afnan Habib, Ertan Bütün, Mughed A. Al-antari
		A Hybrid Artificial Intelligence Framework for Lumbar Spine Anatomical Landmark Measurement Extraction from MRI Axial and Sagittal Scans
		Saied Salem, Afnan Habib, Mukhlis Raza, Ahmet Arif Aydin, Yeong Hyeon Gu, Mughed A. Al-antari
		SpineAutoCAD: Multimodal CAD system for lumbar spine MRI Analysis and Structured report Generation
		Afnan Habib, Osamah F. Abdulmahmod, Mukhlis Raza, Yeong Hyeon Gu, Murat Aydoğan, Dr. Mughed A. Al-antari
		Towards Explainable AI in Agentic Retrieval-Augmented Generation: A Systematic Review

07 Sep 2025 SUNDAY		
11:00 - 13:30	Authors	Paper Title
CONTEMPORARY TECHNOLOGIES-IV	CHAIR: Ahmet Arif AYDIN	Lovely Mae Dagsa, Kenneth Joshua G. Alejandria, Harvey Joeprim S. Galindo, Alfred Dennis B. Balamad, Jeffrey T. Delloso
		AgriSENSE: Design and Development of a Real-Time Soil Nutrient Monitoring System in Precision Agriculture
		Dr.Chitra S, Mr.Ravichandran D
		An Analytical Review of Cloud Storage Vulnerabilities and their Implications on Cybersecurity Architecture
		Ryan Cuarez, Chris James Amba, Rustum Goden, Jeelord Cuarenta
		Web-based Item Tracking System using Optical Character Recognition (OCR) Integration and Levenshtein Matching for Image to Record Verification
		Victor B. Arlan, Marloun M. Auguis
		Design and Development of ALARM: Automatic Flood Response for a Residential Electrical System
		Rica Florabel N. Remulta, Frank Aiken O. Alan
CONTEMPORARY TECHNOLOGIES-V	CHAIR: Dr. Mughed A. AL-ANTARI	Development and Evaluation of a Performance Tracker for Licensure Examination for Teachers
		Tomohiro Umetani, Sotaro Tanigawa, Tatsuya Kitamura
		Rapid Development of an Interactive Service Robot using a Web Browser Control System
		Priyadharshini Sekar, Kanaga Suba Raja S
		A Multi-Scale Attention-Driven Deep Learning Model for Accurate and Interpretable Diabetic Retinopathy Severity Classification
		Erickson A. Tacda, Leynard Roy Miguel G. Capilitan, Glenn Mar O. Tucong
		Comparative Evaluation of an Autonomous IoT-Enabled RAS with Image-Based Tilapia (Oreochromis niloticus) Growth Monitoring and Traditional Farming Practices
		Rolando Waminal Aguilar Jr., Jay S. Genita, Julian Sean Paul T. Falch, Jezreel D. Daguplo
		DESIGN AND DEVELOPMENT OF AN AUTONOMOUS FIRE-EXTINGUISHING ROBOT LEVERAGING COMPUTER VISION FOR EARLY FIRE DETECTION

07 Sep 2025 SUNDAY		
11:00 - 13:30	Authors	Paper Title
APPLICATIONS-III	CHAIR: Abdullah Erhan AKKAYA	Maryam Nasirian, Mehmet Rasit Eskicioglu
		Enhancing FootprintID with Intelligent Feature Selection: A Wrapper-Based Approach for Efficient Indoor Pedestrian Recognition
		Damla Oğuz
		Stability of Low-Cost High-Utility Patterns under Uncertain Cost Assignments
		Zeynep Kaya, Şahin Işık
		Statistical Feature-Aided TCN-GRU Network for Radio Signal Modulation Classification
		Meryem Yazıcı, Mehmet BAYGIN, Isil KARABEY AKSAKALLI
		Detection and Correction of English Grammar Errors Using Natural Language Processing Methods
APPLICATIONS-III	CHAIR: Abdullah Erhan AKKAYA	Abdulkadir ALPER, Nuğman SAĞIR, Zeynep HASIRCI TUGCU
		Obstacle-Aware Machine Learning Classification in V2V Communication Based on Path Loss Patterns
		Metin Kaynaklı, Ahmet Albayrak, Bahattin İşcan
		Spectroscopic Characterization and AI-Based Classification of Engine Oil Degradation in Internal Combustion Engines
		Melike Arslan, Leonardo Badia
		Staleness Minimization of Sensing Under Multiple Real-Time Observations
		Canan Tastimur
		Diffusion-Based Anomaly Detection for Railway Track Fault Diagnosis

07 Sep 2025 SUNDAY		
11:00 - 13:30	Authors	Paper Title
AI & HEALTHCARE-II	CHAIR: Fatih OKUMUŞ	Fatma Banu İspir, Erkan Tanyıldızı
		Comparsion of CNN and Transformer Models with Transfer Learning in Monkeypox Diagnosis
		Zafer Cömert, Hilal Işık, Elif Mangan, Muammer Türkoğlu, Abdülkadir Şengür
		Integrating Adaptive Gaussian Precision and Multi-Scale Feature Extraction for Enhanced Diagnosis of Ph-Negative Myeloproliferative Neoplasms in BMT Images
		Ramazan Terzi
		Evaluating Vision Encoders for Feature Extraction in Mammography Image Classification
		Özkan Arslan
		Epileptic Seizure Detection Using Multimodal EEG Scalogram and ConvNet Model
		Ayşe Eldem, Hüseyin Eldem
AI & HEALTHCARE-II	CHAIR: Fatih OKUMUŞ	LLM-based Classification in Diabetes Disease Diagnosis for Health Consultancy
		Fatma Betul KARA ARDAC, Pakize ERDOGMUS
		A Transformer-Based Method for Semantic Segmentation of Mitosis in Breast Histopathology Images
		Omer Yilmazer, Ozgur Koray Sahingoz
		Machine Learning Based Skin Cancer Detection Systems: A Comprehensive Survey
		Selin Şaşal, Aybars Uğur, Özgü Can
		Deep Learning-Based Classification of ADHD: A Study on the ADHD-200 Dataset
		Murat KILIÇ, Abdulkadir YELMAN, Hüseyin ÜZEN, Hüseyin FIRAT, Merve BIYIKLI, İpek BALIKÇI ÇİÇEK, Abdulkadir ŞENGÜR
		Automated Segmentation of Lung Lesions Using Deep Learning: A Study on a Multi-Class CT Dataset

07 Sep 2025		SUNDAY	
11:00 - 13:30		Authors	Paper Title
ALGORITHMS & HEURISTIC METHODS-II	CHAIR: Ali KARCI	Serdar Ekinci, Cebraail Turkeri, Davut Izci, Oleh Kiselychnyk, Burcu Gunes Bektas	Opposition-based Starfish Optimization Algorithm for Function Optimization
		Serdar Ekinci, Cebraail Turkeri, Davut Izci, Oleh Kiselychnyk, Burcu Gunes Bektas	High-precision Parameter Identification for the Lorenz System via Starfish Optimization Algorithm
		Taner Gürel, Çağan Atan, Sevgi Çakmak, Ceyda Özcan Zaim, Elif Özdoğan, Hale Gezen, Kardelen Akkaya, Murat Osman Ünalır	Üst Veri Odaklı Veri Havuzu ile Çizge Tabanlı Müşteri Tekilleştirme
		Saliha ÖZGÜNGÖR, Burhan SELÇUK, Hakan KUTUCU, Ayşe Nur ALTINTAŞ TANKÜL	New Variants of Interpolated Binary Search Algorithm
		Miray Kol, Zuleyha Akusta Dagdeviren	An Assessment of Vertex Cover Based Link Monitoring Algorithms in IoT Networks
		Ahmet Gürbüz, Aybars Uğur	A Multi-Clustering Aggregation Method for Initializing Node Representations in Featureless Graphs
		Ali Karcı	Coverages of Malatya Centralities for Node Neighbourhoods and Its Effects on Malatya Dominating Set Algorithm

07 Sep 2025		SUNDAY	
11:00 - 13:30		Authors	Paper Title
MACHINE LEARNING & DEEP LEARNING-III	CHAIR: Ahmet KARADOĞAN	Soner Kızılloluk	Transformer Tabanlı Derin Öğrenme Modelleri ile Mısır Hastalıklarının Tespiti
		Teoman Berkay Ayaz, Muhammet Furkan Özara, Ahmet Erkan Çelik, Akhan Akbulut	Predictive Ethereum Fraud Detection with Few-Shot and Active Learning on Scarce Labels
		Murat IŞIK, Mehmet Ali YALCINKAYA, Rıdvan GONCA	A Targeted YOLO-OCR Pipeline for Automated Receipt Field Extraction and Management
		Furkan Zeki Türkzeybek, Emrah Inan	Reframing Software Log Summarisation as Multi-label Classification with Encoder–Decoder Transformer Model
		Saadin Oyucu, Betül Ersoz, Ahmet Aksoz, Emre Biçer	A Web-Integrated Machine Learning Approach for SOC Prediction Based on Electrical Impedance and Voltage Measurements
		Yahya Altuntaş, Adnan Fatih Kocamaz	Convolutional Ensemble Learning for Stock Price Direction Forecasting and Algorithmic Trading
		Mehmet Umut SALUR, Melike KAYMAZ	Facial Emotion Recognition Using Vision Transformer Enhanced with Attention Mechanisms
		Ebru Ergün, Hatice Okumuş	A Vision Transformer-Based Deep Learning Approach for Lemon Leaf Disease Detection
		Kadir Doğanşahin, Ali Yüce	Modeling Hourly Electricity Consumption in Institutional Buildings: An Interpretable Machine Learning Approach

07 Sep 2025		SUNDAY	
11:00 - 13:30		Authors	Paper Title
CONTEMPORARY TECHNOLOGIES-V	CHAIR: Mohammed A. Al-masni	Grethyl C. Jamero, Ericson A. Tacda	BiLSTM-Based Predictive Modeling of Paralytic Shellfish Toxin Occurrences Using Satellite-Derived Meteorological Data: A Case Study in Lianga Bay, Philippines
		Elijah N. Banguis, James Jasper C. Dela Cruz, Rosalyn M. Mollida, Regien B. Nakazato, Takeyasu V. Nakazato	GAN-based Hybrid Image Generation: ARF-GAN and MobileGAN Synthesis
		Osamah F. Abdulmahmod, Afnan Habib, Mukhlis Raza, Yeong Hyeon Gu, Muhammed Talo, Mugahed A. Al-antari	A Novel Lumbar Foraminal Stenosis Detection and Classification Framework using 3D Sagittal MRI Dataset
		Ardy N. Ubanos, Fredilyn Calanda	AI-Enhanced Food Recommender System using DeepFM as Predictive Model
		Maverick U. Moldez, Alonica R. Villanueva	A Hybrid Clustering Approach Using KMeans and Hierarchical Clustering Algorithm in Large Language Model for Clustering Students Queries
		Mukhlis Raza, Jamil Hussain, Yeong Hyeon Gu, Bilal Ertuğrul, Inbo Han, Mugahed A. Al-antari	SR-MKG: Self-Refining Medical Knowledge Graph via LLM-based Topological Confidence Scoring for Radiological Reports of Lumbar Spinal Stenosis
		Rhea Lucy Mintuda, Rudolph Joshua Candare, Dhonald Frenz Layo, Reynaldo Jr. Porras	Comparative Analysis of Deep-Reinforcement Learning-Based Autonomous Mobile Robot for Goal-Driven Mapless Indoor Navigation
		Marisol Jane Margallo Beray, Hannah Rosales, Jundy Pael Adlao, Junlloyd Dagani, Jun Elmer Dagani	Intelligent Vision-Based Autonomous Waste Carrier
		Melgie Rose C. Acero, Erickson A. Tacda, Khrezitte Kurlstein Rey Jary M. Labalan, Blessilah D. Pangisban	IoT-Enabled Autonomous Water-Surface Drone for Real-Time Water Quality Monitoring, Forecast-Driven Decision Support, and Automated Aeration in Small-Scale Fishponds