10th International Symposium on Innovative Approaches in Smart Technologies

SYMPOSIUM PROGRAM

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December 4–5, 2026 | Virtual

ISAS
INTERNATIONAL SYMPOSIUM ON
INNOVATIVE APPROACHES IN SMART TECHNOLOGIES

Friday, December 4, 2026			
Time (GMT+3)	**ROOM 1**	**ROOM 2**	**ROOM 3**
09:30 AM - 11:30 AM	SESSION 1.1	SESSION 1.2 Chair: Muhammed Celik	SESSION 1.3 Chair: Turgut Ozseven
11:30 AM - 1:30 PM	Lunch Break		
1:30 PM - 3:30 PM	SESSION 2.1 Chair: Ebubekir Yasar	SESSION 2.2 Chair: Muhammed Celik	SESSION 2.3 Chair: Turgut Ozseven
3:30 PM - 4:00 PM	Cofee Break		
4:00 PM - 6:30 PM	SESSION 3.1 Chair: Ebubekir Yasar	SESSION 3.2 Chair: Muhammed Celik	SESSION 3.3 Chair: Turgut Ozseven

Saturday, December 5, 2026			
Time (GMT+3)	**ROOM 1**	**ROOM 2**	**ROOM 3**
09:30 AM - 11:30 AM	SESSION 4.1 Chair: Ebubekir Yasar	SESSION 4.2 Chair: Muhammed Celik	SESSION 4.3
11:30 AM - 1:30 PM	Lunch Break		
1:30 PM - 3:30 PM	SESSION 5.1 Chair: Ebubekir Yasar	SESSION 5.2 Chair: Muhammed Celik	SESSION 5.3 Chair: Turgut Ozseven
3:30 PM - 4:00 PM	Cofee Break		
4:00 PM - 6:30 PM	SESSION 6.1 Chair: Ebubekir Yasar	SESSION 6.2 Chair: Muhammed Celik	SESSION 6.3 Chair: Turgut Ozseven

POSTER SESSION

VIRTUAL SESSIONS (Virtual presentations will be held live on Zoom)						
Date	**Time (GMT+3)**	**Session**	**Chair**	**Meeting ID**	**Password**	**Join**
4-Dec-26	9:30 am - 11:30 am	Session 1.2.	Muhammed Celik	*881 6018 0211*	*523077*	Join
		Session 1.3.	Turgut Ozseven	*899 6798 3002*	*212478*	Join
	1:30 pm - 3:30 pm	Session 2.1.	Ebubekir Yasar	*857 1844 3018*	*945766*	Join
		Session 2.2.	Muhammed Celik	*886 1327 0490*	*609743*	Join
		Session 2.3.	Turgut Ozseven	*867 0756 3403*	*95795*	Join
	4:00 pm - 6:30 pm	Session 3.1.	Ebubekir Yasar	*890 2077 8087*	*245486*	Join
		Session 3.2.	Muhammed Celik	*859 4780 8013*	*595321*	Join
		Session 3.3.	Turgut Ozseven	*885 1445 0022*	*499912*	Join
5-Dec-26	9:30 am - 11:30 am	Session 4.1.	Ebubekir Yasar	*850 8111 6367*	*905726*	Join
		Session 4.2.	Muhammed Celik	*864 1291 4733*	*138885*	Join
	1:30 pm - 3:30 pm	Session 5.1.	Ebubekir Yasar	*847 9669 0591*	*182336*	Join
		Session 5.2.	Muhammed Celik	*812 9189 5733*	*338441*	Join
		Session 5.3.	Turgut Ozseven	*851 9334 7811*	*484861*	Join
	4:00 pm - 6:30 pm	Session 6.1.	Ebubekir Yasar	*893 4686 9105*	*841675*	Join
		Session 6.2.	Muhammed Celik	*812 9309 8939*	*258506*	Join
		Session 6.3.	Turgut Ozseven	*839 5367 8049*	*775865*	Join

ISAS 2026

4 DECEMBER 2026 | 09:30 AM - 11:30 AM

SESSION 1.1 ROOM 1	SESSION 1.2 ROOM 2	SESSION 1.3 ROOM 3
Session Chair:	Session Chair: Muhammed Celik	Session Chair: Turgut Ozseven
	312 - A Stability-Aware Method for Adaptive Management of Generative AI Autonomy in Engineering Tasks ***Aldeniz Rashidov***	87 - A Lightweight Asset-Criticality-Aware Zero Trust Access Decision Model for Operational Technology Networks ***Çağatay Korkuç*** *, Markus Weißensel, Efe Tekin Dönmez*
	116 - Human-in-the-Loop and Human-on-the-Loop: Risk-Based Human Oversight in Enterprise Agentic AI Systems *Zeynep Örpek,* ***Büşra Tural***	43 - MATLAB-Based Identification of CRISPR-Cas9 Guide RNA Candidates for TP53 Human Gene ***Cansel FICICI*** *, Parisa Ebrahimpour Moghaddam Tasouj*
	143 - GIS-Based Seismic Spatial Screening and School Relocation Accessibility: Evidence from Adana, Türkiye ***Murat Başeğmez*** *, Serap Arzugül Çüçen*	270 - Is AI Cheaper Than Humans Everywhere? Break-Even Analysis of AI Agents across Five Economies ***Esin Eltimür***
	149 - Comparison of StyleGAN2-ADA With Recent GAN Models on Limited Peripheral Blood Cell Data and the Effect of Color Transformations ***Mustafa GÜRBÜZ*** *, Fatih DEMİR, Mustafa Hakan BOZKURT*	229 - Road Marking and Road Damage Detection from Panoramic Images: A Case Study of Samsun *Muhammed Arslan,* ***Hasan Hüseyin Yurdagül*** *, Hatice Türkdoğan, Adem Seller, Tolga Hardal*
	286 - Permanent Magnet Geometry Based Reluctance Factor Analysis of a Low Voltage PMSM for Direct Drive Servo Spindles ***Mustafa Özsoy***	52 - Development of a Low-Cost Electronic Nose for Monitoring Storage-Related Changes in Turkish Coffee ***Rümeysa Salman*** *, Gonca Uslu Özküçük*
	298 - Lynceus MK-I: A Portable 24 GHz mmWave FMCW Tactical Radar with Dual-Core Real-Time Processing and Graphical Display ***Rareș Niță*** *, Daniel Tudor Trandafir, Ștefania-Narcisa Ștefănescu, Mihai-Ionuț Barbu*	223 - Development of An Authentication Method Based on The Niederreiter Crypto-Code Construction on Reed-Solomon Codes *Roman Korolov, Tetiana Milevska, Yevhen Melenti,* ***Ruslan Vegiiev*** *, Vitalii Valieiev, Oleksandr Iegrashyn*
	285 - Influence of Permanent-Magnet Geometry on Leakage Flux in a Compact PMSM for a Robotic Joint Actuator ***Sami Arslan***	219 - Bi'Paylaş: Coordinating Surplus-Food Sales and Community Donations Through Shared Inventory and Pickup Verification *Rusen Firat Akbal, Bekir Can Turkmen,* ***Serhat Uzunbayir***
	191 - A Multitenant Enterprise Conversational AI Platform: An RAG and Multi-LLM Enabled Architecture and Experimental Evaluation ***Tuğba Tuna***	216 - WalkLab: A Bilateral Active Infrared Marker Detection and Identity-Preserving Tracking System for Two-Dimensional Lower-Limb Motion Analysis ***Yusuf Buğra Günaydın*** *, Emre Adıgüzel, Erhan İlhan Konukseven*

ISAS 2026

4 DECEMBER 2026 | 1:30 PM - 3:30 PM

SESSION 2.1 ROOM 1	SESSION 2.2 ROOM 2	SESSION 2.3 ROOM 3
Session Chair: Ebubekir Yasar	**Session Chair: Muhammed Celik**	**Session Chair: Turgut Ozseven**
231 - Mixed Reality Assembly Training with Physical Tools: A Comparison to Virtual Reality Training ***David Mack*** *, Ludger Schmidt*	265 - A Microservices-Based Architecture for Digital Service Orchestration in POS Ecosystems: An Industrial Case Study ***Vedat COSKUN*** *, Gokturk TOPAR, Emre OZKAYA, Busra OZDENIZCI KOSE*	29 - Predicting Call Volume for Electronic Payment and Money Institutions Using Machine Learning Models ***Zehra Sude Sarı*** *, Baran Turguter, Recep Tayyip Kılıç, Ceren Ulus, M. Fatih Akay*
173 - Towards Wi-Fi CSI-Based Contactless Fall Detection: A Low-Cost ESP32 Sensing Setup and Hybrid CNN-Transformer Framework ***Gulsum Akkuzu Kaya***	262 - Empirical Evaluation of ECDSA Resistance to Horizontal Side-Channel Analysis *Cem CANTURK,* ***Vedat COSKUN*** *, Busra OZDENIZCI KOSE, Ozgur COSKUN*	121 - No-Code Design Platform for E-Commerce Websites: Page Builder ***Zehra Sude Sarı*** *, Serkan Uslu, Gökay Dağdaş, Oğuzhan Durmaz, Okan Burak Karakoca, M. Fatih Akay*
277 - Gerçek Zamanlı Akıllı Video Gözetiminde Düşme ve Şiddet Olaylarının Eş Zamanlı Tespiti için Çok İş Parçacıklı Hibrit Bir Çerçeve ***İbrahim Şahan*** *, Burak Kaynakçıoğlu, Suhap Şahin, Yiğit Ünal*	129 - Image Compression as a Defense against Adversarial Attacks in Medical Images ***Sotiria Karipidou*** *, Eleni Vrochidou, George Papakostas*	115 - Assessment of Energy Efficiency and Harmonic Distortion of Shipboard Electrical Equipment ***Galin Segov*** *, Ginka Ivanova, Iliyan Donev, Milen Duganov*
291 - Synthetic Twins: Closing the Gap Between TTS Test Sets and Real Recordings in Turkish ASR Evaluation ***Nur Yağmur Tuncer*** *, Mustafa Sertaç Türkel, Fatma Nur Korkmaz, Ahmet Tuğrul Bayrak*	208 - “Parallel” Construct of Multi-User Quasi-Random Bit Generators for Cloud Applications ***Sergii Golovashych*** *, Vladyslav Kovtun, Roman Korolev, Yurii Kleban, Oleksandr Fediushyn, Oleksandr Pshenychyi*	256 - Turkish Text-to-SQL over Enterprise MES Databases: Effects of Question Language, Schema Description Language and Embedding Model ***Eren Coşkun*** *, Ömer Tekin Yavuz, İbrahim Beşen*
240 - Masked Autoencoder Based Mucilage Anomaly Detection from Hyperspectral PRISMA Imagery ***Tugcan Dundar***	181 - Degradation-Conditional Robustness in Metadata-Stripped Medical Image Retrieval: An Empirical Evaluation *Efosa Osagie,* ***Rebecca Balasundaram*** *, Subalalitha Chinnaudayar , Hemish Jain, Anukool Kashyap, Arnav Shrivastava, Kunal Krishna*	192 - Goals or Demand? A Comparative Analysis of Management Information Systems Students’ Career Plans and Skill Requirements in the IT Sector ***Ali Yavuz*** *, Rüveyda Nur Ünal, Arda Şap, Fatih Öztunç, Hakan Tekedere*
190 - Development and Functional Evaluation of a Simulation-Based Industrial Internet of Things Platform for Multivariable Flotation Monitoring and Decision Support *Daniel Vilchez,* ***Yovana Torres***	120 - Thermodynamic Assessment of Industrial Extraction-Condensing Steam Turbine under Seasonal Operating Conditions *Penka Zlateva, Angel Terziev, Krastin Yordanov,* ***Nevena Mileva***	127 - A Systematic Ablation Study of Squeeze-and-Excitation Placement in Deep CNNs for Lung Cancer CT Classification ***Aleyna Yerlikaya*** *, Sarp ÇOBAN, Zafer CÖMERT*
81 - Design of Metamaterial-Incorporated CPW Antenna for Biomedical Applications ***Faishal Adilah Suryanata*** *, Raimi Dewan, Abdelaziz Hamdoun, Jaysuman Pusppanathan*	45 - Lightweight Ensemble Fake News Detection on Commodity CPUs: A Measured Comparison of Cost and Accuracy ***Ndachimya Magaji Edward*** *, Louis Adamu Obadiah, Jibrailu Daniel, Nibras Mohammad Abubakar, Chahya'andida Ishaya, Daniel Godwin, Yusuf Garga Bello, Nyibong George*	234 - From Critical Success Factors to Candidate Predictive Variables: A Data Operationalization Framework for Machine Learning-Based Start-up Analysis ***Albert Aliu*** *, Mariana Atanasova, Eliza Stefanova*
126 - Green Hydrogen Technologies for Heating, Cooling and Electricity Supply in Buildings *Penka Zlateva, Angel Terziev,* ***Nevena Mileva*** *, Krastin Yordanov*	50 - Artificial Intelligence-based Low-Code Platform for Software Development Environments *Cihan Çavuşoğlu, İsmail Kaşan,* ***Ceren Ulus*** *, M. Fatih Akay*	83 - Safety-Constrained Selection of Agent Voice Style from Customer Speech Emotion for Streaming Style Conversion in Call Centers ***Rasha Güzel*** *, Harun Çiğ*

ISAS 2026

4 DECEMBER 2026 | 4:00 PM - 6:30 PM

SESSION 3.1 ROOM 1	SESSION 3.2 ROOM 2	SESSION 3.3 ROOM 3
Session Chair: Ebubekir Yasar	**Session Chair: Muhammed Celik**	**Session Chair: Turgut Ozseven**
154 - Reducing Fault Blast Radius in Multi-Cloud Infrastructure-as-Code Through Decoupled Hybrid PL-IaC Orchestration ***Kshitiz Kharal,*** *Wanod Kumar, Savitri Bevinakoppa, Mohtashim Baqar, Amina Saleem*	22 - Development of a Prophet-Based Sales Forecasting Model Using ERP Data for the Security Systems Industry ***Zehra Sude Sarı*** *, Said Bahadır Kaya, M. Fatih Akay*	310 - A Comparative Study of Hand-Written RTL and High-Level Synthesis with hls4ml for Fixed-Point Neural Network Inference on FPGA ***Önder Polat***
70 - AI-Driven Supply Chain Optimization for Resilient Operations in the Oil Industry *Rawa Mousa Hussein, Moamin Ibrahim Jameel, Haider Ali Radi, Hussam Jasim Ali,* ***Mohammed Majid Abdulrazzaq,*** *Ali Alkharsan*	233 - The Cumulative Architecture of Operational Disciplines: From DevOps to AgentOps *Erva Alp,* ***Zeynep Destan***	151 - TurnTurk-GPT: Text-Based Turn-Taking Prediction for Turkish ***Ahmet Tuğrul Bayrak*** *, Mustafa Sertaç Türkel, Fatma Nur Korkmaz, Nur Yağmur Tuncer*
158 - A Machine Learning Framework for Last-Mile Delivery Time Prediction Using Hierarchical Spatial Features ***Nimet Karagöz Gökçen*** *, Gönül Beril Aksu, İbrahim Halil Demircioğlu, Muammer Yalçın, C. Okan Şakar*	308 - LLMduckt: A University-Operated LLM API Gateway for Applying Language Models in Teaching ***Benedikt Brünner*** *, Philipp Leitner, Sandra Schön, Martin Ebner*	289 - Evaluating LLM-Based Synthetic Data Augmentation for Predictive Maintenance ***Ahmet Tuğrul Bayrak*** *, Fatma Nur Korkmaz, Mustafa Sertaç Türkel, Nur Yağmur Tuncer*
313 - Explainable Artificial Intelligence for Carbon-Related Prediction and Forecasting: A Systematic Literature Review and Multidimensional Taxonomy ***Umutgül Bulut,*** *Eren Özceylan, Pınar Kocabey Çiftçi, Ömer Nedim Kenger*	204 - Hybrid Gaussian–Wendland Radial Basis Functions for Open Curve Reconstruction From Noisy Data Points Through Clonal Selection *Akemi Galvez, Sara Perez-Carabaza,* ***Andres Iglesias***	207 - Concept Guided Vector Fusion: Enhancing Sustainable Product Retrieval in E-Commerce Dense Search ***Melis Öztürk Umut*** *, Enis Teper, Mustafa Keskin*
305 - Virtual-Altitude Self-Distillation (VASD) for YOLO-Based Object Detection in Maritime UAV Imagery at Unseen Altitudes ***İLKER YILDIZ*** *, ABDULLAH KANAAN SULAIMAN SULAIMAN*	178 - Sparsity-Driven Uncertainty in Synthetic Clinical Data: Implications for Generative Models and Evaluation Practices ***Efosa Osagie*** *, Obasanjo Bolarinwa, Wei Ji, Na Helian , Rebecca Balasundaram, Boineelo Nthubu, Rashmi Siddalingappa*	206 - The Impact of Embedding Dimensionality Reduction on Music Retrieval ***Mustafa Keskin,*** *Enis Teper, Melis Öztürk Umut*
175 - A Hybrid Anomaly Detection System for Distributed Job Processing Statistics in Microservice Architectures ***Ramazan Pekin***	152 - Behavioral Characterization and Risk-Prioritized Regression Testing for Legacy Monolith Modernization ***Rohit Arora***	157 - Centralizing Business Rules in a Sales Application: Use-Case-Based Domain Layer Refactoring *Ahmet Ocak, Tunahan Demir,* ***Ceren Ulus*** *, M. Fatih Akay*
296 - Music Genre Classification with a Mel-Spectrogram-Based Hybrid CNN–Transformer Model: A Track-Level Evaluation on GTZAN ***Roz Jafar*** *, Selen Ayas*	217 - Prompts in the Logs: A Static Measurement of Prompt, Response and Credential Logging in Open-Source LLM Applications ***Sunny Chokshi***	28 - Development of a Cryptology-based Platform for Secure Transmission of Digital Banking Data *Baran Aydın,* ***Ceren Ulus*** *, M. Fatih Akay*
106 - From Smart Classrooms to Intelligent Learning Environments: A Bibliometric and Science Mapping Analysis of the Convergence of Artificial Intelligence and the Internet of Things in Education ***Aaron Paul Dela Rosa*** *, Noemi Reyes, Angelo Reyes, Jonathan Tomacruz, Janice Sarmiento, Christian Mediran, Sheldon Arenas, Mayleen Dorcas Castro, Eunice Custodio*	84 - InFogv1: A Toolkit for Modeling and Simulating Resource Management Techniques in IoT and Fog Computing Environments *Paola G. Vinueza-Naranjo, Janneth Chicaiza,* ***Johnatan Corrales-Bonilla*** *, Rubén Rumipamba-Zambrano, Yesenia Cevallos, Carlos Burgos-Arcos, Jesús B. Alfonso-Henández*	267 - Learning What Not to Extract: Layered Synthetic Supervision for Seller-Overlay Extraction in Marketplace Product Images ***Cansu Er*** *, Berk Taskin, Sezin Dogan, Mustafa Furkan Eseoglu, Hikmet Bahadir Sahin*
302 - Merchant-Level Total Payment Volume Forecasting in Payment and Electronic Money Institutions ***Cansu Barışıcı*** *, Ozgun Sutemen, Burak Tunca, Nazan Deniz Meydan, Mehmet Bülent Muşlu, Berke Cüra*	105 - Legal NLP at the Edge: A Local LLM Prototype for Summarization and Fact Verification in Bulgarian *Martin Dimitrov, Dobromira Bankova-Ganeva ,* ***Ioannis Patias***	292 - Techno-Economic Feasibility and Operational Arbitrage of a Green Hydrogen-Integrated Virtual Power Plant under Duck Curve Dynamics: A Case Study in Şanlıurfa Province in the Southeastern Region of Türkiye ***Cihan Ayhancı*** *, Kübra Al, Bedri Kekezoğlu, Aysel Kantürk Figen*
307 - Multistage Product Validation and Human Review for E-Commerce Listings With and Without Images *Cansu Barışıcı,* ***Berke Cüra*** *, Ozgun Sutemen, Burak Tunca, Nazan Deniz Meydan, Mehmet Bülent Muslu*	306 - AIOps'ta Büyük Dil Modelleri ve Pekiştirmeli Öğrenme Uygulamalarına Dair Sistematik Bir Haritalama Çalışması ***Berfin Meryem Kenar***	257 - Distilling VLM Consensus for Money and Payment-Card Moderation in E-Commerce Images ***Mustafa Furkan Eseoglu*** *, Berk Taskin, Aysenur Kulunk, Hikmet Bahadir Sahin*

ISAS 2026

5 DECEMBER 2026 | 09:30 AM - 11:30 AM

SESSION 4.1 ROOM 1	SESSION 4.2 ROOM 2	SESSION 4.3 ROOM 3
Session Chair: Ebubekir Yasar	**Session Chair: Muhammed Celik**	**Session Chair:**
58 - A Conceptual Model for Adaptive Management of Generative AI Autonomy in Engineering Tasks ***Aldeniz Rashidov***	33 - GEVboost and XGBoost Correction of GraphCast Precipitation Forecasts over the UAE ***Abdullah Al Mokdad*** *, Takua Mokhamed, Fatima Dakalbab, Qassim Nasir, Sohail Abbas, Manar Abu Talib*	
74 - An Adaptive Method for Dynamic Management of Generative AI Autonomy in Engineering Tasks **Aldeniz Rashidov**	41 - Instrument Aware Detection of Behind the Meter Storage Dispatch and Vehicle Charging from Feeder Head Meter Windows in a Hybrid AC/DC Feeder Digital Twin ***Ahmet Aksoz***	
226 - Deep Learning-Based Honeybee Detection at Hive Entrances: A Case Study in Gaziantep, Turkey ***Ali Can Üzümcü*** *, Ömer Nedim Kenger, Zülal Kenger*	293 - From LLM to AI Ecosystems: Eight-Layered Reference Architecture of Generative AI ***Albena Antonova***	
145 - Intrusion Detection in IoT Networks Using Meta-Learning With Limited Data ***Baran YİĞİT*** *, Uraz YAVANOĞLU*	31 - A Python-Based GTFS Tool for Stress Testing Public Transport Service Resilience in the Bucharest–Ilfov Region *Dorinel STROE,* ***Alexandru Marin*** *, Marius-Valentin DRĂGOI, Claudia-Anamaria BUZDUCEA (DRĂGOI)*	
253 - Development of a Simulation-Based Serious Game for Drone-Assisted Forest Firefighting Training ***Barış Can Çamsarı*** *, Mehmet Acar, Eren Uluhan, Sena Taş*	111 - A Risk-Aware Sprint Planning in Agile Software Projects Predictive Effort Estimation and Multi-Objective Backlog Optimization *Bogdan George Ranea,* ***Alexandru Marin*** *, Marius-Valentin DRĂGOI, Claudia-Anamaria BUZDUCEA (DRĂGOI)*	
241 - Load Dependent Start and Stop Control for Battery Prioritized Hybrid DC Power Systems ***Berkan Yaprak*** *, Murat Mustafa Savrun*	303 - Comparative Evaluation of A* and Dijkstra for Global Path Planning on Two-Dimensional Grids: A Preliminary Study for the myAGV 2023 *Vladimir Hristov,* ***Antonia De Amorim***	
278 - Computational Evaluation of a Hybrid Short Generator Proof-of-Work and Proof-of-Authority Design for Post-Quantum-Motivated Permissioned IoT Blockchains ***Ebru Adıgüzel Göktaş*** *, Bayram Ali Ersoy*	230 - Impact of RIS Placement on Outage Probability in Hybrid RIS-Assisted Wireless Systems ***Furkan Arslan*** *, İbrahim Develi, Zehra Yiğit*	
254 - Software-Induced Sleep Power on the FIT IoT-LAB M3 Node: From About 30 mW to Below 1 mW in a Diagnostic Firmware Image ***ERCAN GUNBILEK*** *, ZULEYHA AKUSTA DAGDEVIREN, HASAN BULUT*	167 - Development of a Method for the Objective Assessment of the Current State of Security of Critical Infrastructure Facilities ***Oleksandr Kushnerov*** *, Vladyslav Sokol, Serhii Yevseiev, Illia Bukatych, Oleksandr Novoseletskyi, Olena Voloshchuk*	

ISAS 2026

5 DECEMBER 2026 | 1:30 PM - 3:30 PM

SESSION 5.1 ROOM 1	SESSION 5.2 ROOM 2	SESSION 5.3 ROOM 3
Session Chair: Ebubekir Yasar	**Session Chair: Muhammed Celik**	**Session Chair: Turgut Ozseven**
39 - Machine Learning in Injury Prediction and Personalized Athlete Rehabilitation ***Maria Kamperidou*** *, Eleni Vrochidou, George Papakostas*	261 - A Microservice-Based Architecture for Vendor-Independent Digital Signature Services ***Busra OZDENIZCI KOSE*** *, Tolgahan GENCER, Sedat MARANGOZ, Vedat COSKUN*	30 - A Python-Based Process Coverage Tool for Worker-Absence Stress Testing in Smart Manufacturing *Marius-Valentin DRĂGOI, Claudia-Anamaria BUZDUCEA (DRĂGOI), Cristian-Vasile GHIȚĂ,* ***Alexandru Marin***
8 - EdgeCascade: A Lightweight Two-Stage Anomaly Detection Pipeline for Resource-Constrained IoT Edge Gateways ***Marian Ileana*** *, Pavel Petrov, Vassil Milev*	263 - Balancing Semantic Intent Matching and Rule-Based Entity Resolution in Task-Oriented AI Assistants ***Busra OZDENIZCI KOSE*** *, Ulas BAYSALLI, Mustafa Kemal AKSU, Vedat COSKUN*	104 - Early DDoS Attack Detection Using Fractional-Order Traffic Dynamics and Tsallis Entropy ***Oleksandr Umanskiy*** *, Andrii Tkachov, Maksym Cheremnov, Irada Rahimova, Iurii Iashunin, Ruslan Trofymenko*
16 - Gaziantep İli İçin PLC Tabanlı Açık Çevrim Çift Eksenli Güneş Takip Sistemi ile Fotovoltaik Enerji Verimliliğinin Artırılması *Ipek Atik,* ***Mehmet özdemir***	187 - Touchstone: Verifiable Aggregation and Training in Consensus for Federated Learning ***Halil Said Cankurtaran*** *, Ali Durmuş*	27 - TrustClimateNet: A Hybrid Explainable AI Framework for Uncertainty-Aware Climate Forecasting and Risk-Aware Decision Support ***Rotimi-Williams Bello*** *, Roseline Ogundokun, Pius Owolawi, Ratunku Lekalakala , Lizzy Mpenyana-Monyatsi, Etienne Van Wyk*
269 - Robustness Is Not One Number: U-Net Variants for Pancreas CT Segmentation Under Three Clinical Image Degradations and Three Training-Data Levels ***Mert Ayrancı*** *, Berk Hökmen*	66 - RAPID: Risk-Aware Policy Orchestration for Real-Time Physical Service Networks Under Resource-Capacity Constraints ***Hardik Chawla*** *, Navyansh Kothari*	155 - A Real-Sensor Scent Classification and Reconstruction Pipeline on a Microcontroller: Evaluation, Cross-Session Limits, and a Simulated Integrity-Checked Link ***Yousef M. H. NIJIM*** *, MOHAMMED MOHAMMED SAYIM KHALIL, Büşra ŞAHİN, Mehmet Yiğit ONAT, Amine ABOUKHASSIB*
88 - Assessment of Battery Energy Storage for Increasing Renewable Energy Utilization ***OMAR ALSHEKH ZEIN*** *, ABDULLAH DAĞDEVIREN*	125 - UDPSEC: Design and Implementation of an Application-Integrated Secure Transport Protocol for AIS/NMEA Data ***Iliyan Iliev*** *, Ivaylo Keremidarski*	110 - Multimodal Evidence-Aware Patient-State Profiling for Personalized CPAP Follow-Up in Obstructive Sleep Apnea ***Yasaman Kakaei Siahkal*** *, Nejib MOALLA , Tao WANG , Olivier GRASSET*
89 - Artificial Intelligence-Based Assessment of Solar Energy Contribution to Electricity Demand ***OMAR ALSHEKH ZEIN*** *, ABDULLAH DAĞDEVIREN*	225 - An AI-Driven Curriculum and Competency Assessment: A Machine Learning-Based Syllabus-to-Industry Alignment Engine for Philippine Information Technology Education ***Janette Tanquis*** *, Aurora Miro, Neil Basabe*	150 - AI-Driven Tactical Maneuvers for Autonomous Dogfights ***Ozan PEKER*** *, Fırat HARDALAÇ, Özkan ALTAY*
215 - Orchestration-Induced Tool-Call Redundancy in Agentic Text-to-SQL ***Ömer Tekin Yavuz*** *, Eren Coşkun, İbrahim Beşen*	90 - Learning Under Asymmetry: Comparative Reinforcement Learning for Tiger and Goat Strategies in Baagchal ***Jeevan Kaphle*** *, Saurav Gupta*	271 - Synthetic Data Augmentation with General, Literature-Adapted, and Medical LLMs for Low-Resource Disease Classification from Symptom Descriptions ***Berke Gunes*** *, Enes Ozgozler, C. Okan Sakar*
24 - Impact of Data Centers on Behind-the-Meter Generation and Grid Operation: An EMT-Based Study Using PSCAD ***Kavya Patel***	80 - Evaluating the Impact of Attack-Pattern Variability on False Data Injection Attack Detection in Power System State Estimation ***Arijit Diganto*** *, Darshana Upadhyay, Marzia Zaman, Pirathayini Srikantha, Srini Sampalli*	276 - Reliability of Visual Place Recognition Thresholds Across Sequence Length and Appearance ***Ahmet Ajam*** *, Volkan Sezer*

ISAS 2026

5 DECEMBER 2026 | 4:00 PM - 6:30 PM

SESSION 6.1 ROOM 1	SESSION 6.2 ROOM 2	SESSION 6.3 ROOM 3
Session Chair: Ebubekir Yaşar	**Session Chair: Muhammed Celik**	**Session Chair:**
275 - Hafif MobileCLIP Kodlayıcıları ile Türkçe Görüntü Altyazılama ***Rahman Bilgin*** *, Gaye Yeşim Taflan*	264 - Extending Digital Promissory Notes to Secondary Financial Transactions: A Blockchain-Based Financing and Transfer Framework ***Busra OZDENIZCI KOSE*** *, Cenker YUKSEL, Muhammed KARADAG, Vedat COSKUN*	65 - GluGo: A Hybrid Deep Learning System for Short-Term Glucose Prediction and Insulin Decision Support ***Maryam Salem AlKetbi*** *, Maryam Khalfan AlShamsi, Amna Jamal AlShamsi, Malak Mohammed Nasr, Osman Abul*
297 - Automatic Segmentation of Keratitis Lesions in AS-OCT Images Using Transformer-Based Deep Learning Architectures ***RUKİYE POLATTİMUR***	73 - Network Customer Index (NCI): A Customer-Centric Framework for Telecom Customer Experience Monitoring ***May Mourad Okba*** *, Sally Farouk, Ayman Gaber*	294 - Design and Evaluation of an Explainable Multi-Factor Code Complexity Metric for Python ***Surath Gunawardena***
23 - A Formal Framework for Endogenous Constitutional Revision in AI-Native Systems ***Ali Berkol***	47 - LightSENet: A Compact Encoder–GRU–Decoder Prototype for Speech Enhancement ***RAYMOND RICHARD*** *, Rafet AKDENİZ*	268 - Efficient Malicious QR Code Detection Using Hybrid CNN-Attention Networks ***Sarp ÇOBAN*** *, Alper Talha KARADENİZ, Kürşat Mustafa KARAOĞLAN, Kazım KILIÇ, Zafer CÖMERT*
37 - A Hybrid CNN-Transformer Architecture for Automatic Modulation Classification in Electronic Warfare Scenarios ***İlayda Dim*** *, Yaren Saklavcı, Ali Berkol*	311 - Personal and Campus Digital Twins for AI Literacy: Role and Discipline-Based Preliminary Evaluation in a Synthetic Campus ***Utku Kose*** *, Enes Senol*	238 - An Investigation of the Sequential Forward Floating Selection Method on Ensemble Classification of Medical Images under the Influence of Diversity Criteria ***Saadet Aytaç Arpacı*** *, Songül Varlı*
148 - Complexity Analysis of Hourly Passenger Demand Patterns in Urban Rail Systems ***Taha Yüksel***	146 - Privacy-Preserving AI for Banking Using Hybrid PII Detection and Typed Pseudonymization for Local LLMs ***Varun Nakra***	239 - An Analysis of U-Net Derived Models for the Optic Disc and Optic Cup Segmentation ***Saadet Aytaç Arpacı*** *, Songül Varlı*
177 - Spatiotemporal Parcel Locker Occupancy Estimation Using a Temporal Conditional Variational Autoencoder *Kutay Akdoğan,* ***Eren Özceylan*** *, Yunus Eroğlu*	188 - Design and Development of an Open-Source Generative AI Tutor for Personalized Learning Using LangChain ***Wilson Gayo*** *, Leah Barbaso, Larmie Feliscuzo, Neil Basabe, Beverly Lahaylahay, Christian Barral, Jennifer Amores*	36 - Resource-Aware Feature Reduction for Intrusion Detection in UAV Networks ***Yaren Saklavcı*** *, İlayda Dim, Ali Berkol*
280 - Privacy-Preserving Health Verification Using SSI, DID, and Verifiable Credentials: A Prototype Architecture Toward Zero-Knowledge Proof Integration ***Şevin Saritağ*** *, Özgür Karaduman, Haluk Eren , Muharrem Tuncay Gençoğlu*	124 - Joint Transmit Power and Reflection Coefficient Optimization for Underlay Cognitive Radio Ambient Backscatter Communication ***Chabalala S. Chabalala*** *, Peter O. Akuon, Zhen Gao, Kingsley A. Ogudo*	141 - Stability-Enhanced LNA for UHF Wireless Sensor Receiver Front Ends ***Mehmet Onur Kök*** *, Fatih Kaburcuk*
299 - High Performance Computing in Monitoring of Climate Changes Impact on Public Health ***Ana Proykova***	304 - SIC-Constrained Max-Min Beamforming for Cooperative Double-RIS Downlink NOMA ***Chabalala S. Chabalala*** *, Kingsley A. Ogudo, Zhen Gao*	183 - Regime-Dependent Performance of Classical and U-Net Based Channel Estimators in MIMO-OFDM Systems ***Aynur BAŞIAÇIK,*** *Yüksel BOZKURT*
140 - Explainable Machine Learning for Student Engagement Analysis Using Longitudinal Canvas Learning Analytics *Janette Tanquis, Aurora Miro, Roland Fernandez,* ***Christine Gepiga*** *, Alexander Bucol, Analou Cag-Ong*		

ISAS 2026

POSTER SESSION

SESSION 7.1 https://www.isassymposium.org/poster.html
272 - Credit Supply, Uncertainty and U.S. Private R&D Investment: Evidence from a Sign-Restricted VAR ***Albert Molnar***
72 - A Virtual Measurement Framework for Electrolyte-Dependent OECT Characterization with Automatic Current Ranging *Goran Goranov,* ***Aleksandar Dyankov***
266 - Evaluation of Adaptive Forecast Routing for Financial and Macroeconomic Forecasting ***Desislava Angelova***
128 - Assessing Test Case Complexity in Low-Code and No-Code Applications: A Framework for Prioritizing Testing Effort ***Dinithi Ranasinghe***
169 - An Interpretable Hybrid Method for Numeric and Bulgarian-Text Analysis in 360-Degree Feedback *G* ***ORAN GORANOV*** *, Boyan Karapenev*
209 - Low-Cost LoRaWAN-Based Environmental Monitoring System with Edge Dynamic Thresholding for Early Forest Fire Detection in Andean Forest–Rural Interface Ecosystems ***Jeremy Guaman***
222 - An Evidence-Grounded Neural–Semantic Graph Method for Explainable Detection of Information-Psychological Operations *Oleksandr Shmatko , Pierre Murr, Marharyta Melnyk,* ***Oleksandr Sitchenko*** *, Vitalii Valieiev, Denys Semchenko*
235 - Performance–Security Trade-offs in Context-Hierarchical Tokenization of Personal Data ***Oleksandr Shmatko*** *, Roman Gvozdov , Daniil Viukhin, Dmytro Nekhoroshykh, Iryna Aksonova, Yehor Kudriavtsev*
295 - Exoplanet Vetting on Kepler Light Curves: From Windowed CNNs and Attention-MIL to Real-Data Mamba-2 State-Space Models *Sakshi Bhansali,* ***Shreya Gokhale*** *, Rochelle Ann Teddy, Srushti Mahadik, Pallavi Saindane*
168 - Predicting The Noise Floor Of Cross-Correlation Phase-Noise Analyzers From Adc Datasheet And Characterization Parameters *GORAN GORANOV,* ***Zahari Parunev***