

5th. IEEE International Informatics & Software Engineering Conference (IISEC 2026) - CONFERENCE PROGRAM- 5 FEBRUARY 2026 (THURSDAY)

09:00 - 10:00	REGISTRATION														
09:30-10:30	<p>OPENING CEREMONY - IISEC 2026 (MAIN CONFERENCE HALL) Prof. Dr. Ali YAZICI Chair of IISEC Conference Atılım University, Ankara, Türkiye</p>														
10:30 - 11:30	<p>KEYNOTE SPEECH (ANKARA 2 CONFERENCE HALL) Prof. Dr. Sedat AKLEYLEK University of Tartu, Estonia Migration/Transition to Post-Quantum Cryptographic Protocols: Challenges and Opportunities</p>														
TIME IISEC 2026- February 5, 2026 (ANKARA 2 HALL 11:30- 12:45) IISEC 2026- February 5, 2026 (İSAFAN HALL 11:30- 12:45) IISEC 2026- February 5, 2026 (SEMERCANT HALL 11:30- 12:45) IISEC 2026- February 5, 2026 (BUHARA HALL 11:30- 12:45)															
11:30- 12:45	ID	Session-1: LLMs and Software Engineering	Chair: Dr. Selma NAZLIOĞLU	ID	Session-2: Prompt Engineering for LLMs	Chair: Assoc. Prof. Dr. Cansu Çiğdem EKİN	ID	Session-3: LLMs for Code and Software Design	Chair: Assoc. Prof. Dr. GüL TOKDEMİR	ID	Session-4: Explainable AI and LLMs	Chair: Assoc. Prof. Dr. Sacip TOKER			
1	55	Aykut Alparslan Koç and Mehmet Burak Akgün	LuneSearch: Addressing the Distributed Case of Similarity Search	1	109	Koorosh Nobakhtfar, Kenan Çakıcı and Ruken Zilan	Chain-of-Thought vs. Few-Shot: A Comparative Study of Prompting Strategies for Code Generation	1	81	Ara Guruli, Mariami Gadelia and Walter Tichy	LLMs Can Code, But Can They Do Design?	1	134	Zeynep Böülübaş, Feyza Yıldırım Okay and Uraz Yavanoğlu	An Explainable Deep Learning Framework for Multi-Class ECG Heartbeat Classification
2	149	Abdullahmohammed Abdullahi, Abubakar, Mohamedmohamed Al-Dahhati, Ali Ayasari, Selma Nazlıoğlu and Ali Yazıcı	LLM-Based Evolution of Software Engineering Curriculum Coverage Against SWEBOK 4.0: A Case Study	2	198	Deniz Özçelik, Beyza Küsha and Selma Nazlıoğlu	The Influence of Prompt Language on Code Generation: A Comparative Analysis of Turkish and English	2	25	Ruby Elkarbouthy and Themoszi Sekar	Assessing AI-Based Code Generation using code comments	2	157	Hilal Yurtoglu, Zeynep Böülübaş, Emin Kügu and Haydar Çukurtepe	Deep Learning Approaches for Pneumonia Detection and Analysis with XAI
3	201	Main İdal Aslan, Sevil Çiftalan, Hali Mert Ceylan and Selma Nazlıoğlu	The Impact of Input Structure on Creating Quality Requirements: A Gemini Case	3	200	Merve Küzilimak, Barkın Mert Alper, Mohammad Bon and Selma Nazlıoğlu	The Impact of Prompting Strategies on the Quality of LLM-Generated Biomedical Explanations	3	170	Alper Sınav, Volkan Peker, Hayri Yıldız and GüL Tokdemir	GenAI-assisted software development: Is it killing the creativity?	3	155	Shahdad Peykani and Emin Kugu	Explainable Artificial Intelligence (XAI) In Insurance Fraud Detection
4	179	Sadık Yetkin, Selma Nazlıoğlu and Hasan Akay	LLM Integration into Physics Informed Neural Networks	4	30	Omer Emin Cinar and Numan Halit Güldemir	From Prompt Engineering to Context Engineering: A Comparative Analysis of AI Interaction Paradigms for Large Language Models	4	203	Sezai Uzgür, Selma Nazlıoğlu and GüL Tokdemir	Unveiling the Landscape of Requirements Engineering: Insights from Text Mining	4	178	Osama Faker and Sacip Toker	Informed Skepticism: Navigating The Code Hallucination Dilemma
5	199	Battal Emrullah Akbaba, Berilcan Kutlu, Mübin Kerim Öğüzer and Selma Nazlıoğlu	Quantifying the Hidden Costs of Open-Source License Selection	5	60	Tugberk Kocatekin	How Prompt Design Affects LLM-Based Passover Strength Evaluation: A Comparison Against zxcvbn	5	32	Zeynep Sila Mert, Tuna Yavuz, Ayşe Sima Menseki, Mert Kumbasar, Hüseyin Alperen Elbiz, İsmail Karaoğuz, Sezai Uzgür, Sevgi Koçyuncu Tunç and GüL Tokdemir	VRKitchen: AI-Guided Procedural Training and Risk Management in a Virtual Cooking Environment	5	133	Mohammed Ahmed Abdulrazzaq and Sacip Toker	Quantifying the Real-Time Gap: A Comparative Study of LLMs vs. Random Forest on the DataSense: CIC-İoT-2025 Dataset
12:45-13:30	Lunch Break														
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13:30- 15:30	ID	Session-5: LLMs and Retrieval Augmented Generation	Chair: Prof. Dr. Murat KARAKAYA	ID	Session-6: Machine Learning Methods and Applications	Chair: Prof. Dr. Gökhan ŞENGÜL	ID	Session-7: Applied Machine Learning	Chair: Prof. Dr. Gökcé NUR YILMAZ	ID	Session-8: Deep Learning, IoT, Autonomous Systems	Chair: Dr. Güzin TÜRKmen			
1	183	Eren Memişoğlu, Koray Başkoca, Mehmet Bektas, Kutay Aydemir and Murat Karakaya	AI Museum Guide: An Intelligent and Personalized Interactive System for the Museum of Anatolian Civilizations (FaslaAPI) MVC Test Orchestrator: SRS-Driven Personalization Extraction and Enforcement in AI-Assisted Software Development	1	27	Gizem Sanrıçek and Emre Sümer	Transfer Learning Based Detection of Artificial Intelligence-Generated Human	1	136	Bora Bozaran, Deniz Polat and Gökce Nur Yılmaz	A Deep Machine Learning Approach to ADHD Classification Based on Activity Levels	1	35	Melisa Alara Ozberk and İkay Cinar	Malicious QR Code Classification Using Machine Learning, Deep Learning, and Ensemble Model
2	151	İlayda Dırı, Yaren Saklaklı, Kaan Aytekin and Murat Karakaya	Hypothetical A Multi-Agent System for AI-Powered Originality Assessment	2	124	Tutku İrem Ustun, İfşat Buse Koçabaş, Arda Sezen, Gökhan Sengül, Güzin Türkmen and Mahmut Furkan Bakal	A Multimodal Synthetic Dataset for Multi-Camera Human Detection and Occlusion Analysis in Indoor Environments	2	163	Yuksel Efe Tokat, Gökce Nur Yılmaz and İoana-Florina Colța	Assessing the Predictive Power of Country-Level Performance Indicators on FinTech Firm Outcomes: Using Machine Learning Techniques	2	28	Murat Bakırıcı	Cross-Modal Transformer Fusion for UAV-Ground Integrated Road Surface Anomaly Detection and Severity Quantification
3	152	Harun Hüdai Tan, Murat Karakaya, Baran Erol, Kutay Becerir and Ahmet Alp Malkoç	DDD-Enforcer: An AI-Powered Multi-Agent System for Real-Time Domain-Driven Design Enforcement	3	89	Furkan Karaman, Fatma Gümüş and Can Eyyüpuoğlu	Cross-Lingual Detection of Synthetic Speech Using Acoustic and Deep Features	3	162	Berfin Dolunay Karacay, Selin Sivis, Ayşe Çağla Kandemir and Gökce Nur Yılmaz	Elastic Modulus as a Regime-Aware Computational Descriptor for Knowledge Extraction in Polymer/Graphene Nanocomposites	3	71	Behiye Sahan and Murat Bakırıcı	Few-Shot Learning for Vision Tasks in Autonomous Aerial Systems under Low-Light Conditions
4	205	Ahmet Baran Dincözoglu, Al Kendif and Murat Karakaya	Using Retrieval-Augmented Generation (RAG) and Domain Adaptation for High-Performance Intelligent Tutoring Systems: A Case Study	4	92	Abdullah Taha Ardoğan and Arda Sezen	Latent Space Analysis, Visualization, and Interpretability in Deep Learning: A Systematic Review	4	161	Mehmet Doğukan Hacıyılmaz, Gökce Nur Yılmaz and Ali Berkol	An Object-based Exploration for a Game-theoretic Evaluation of Depth Cue Perception for Biomedical Robotics Applications	4	34	Irem Bayraktar and Murat Bakırıcı	Cloud-aware UAV-UAV Framework for Autonomous Road Inspection and Maintenance in Intelligent Transportation Systems
5	43	H. Esma Gözü, Zeynep Karatepe, M. Nedim Alpdemir, Yusuf Alpdemir and Sakıp Doğan	Evaluating Embedding Strategies for Retrieval-Augmented Generation on Turkish Customer Service Conversations	5	88	Yeseim Vakıf and Arda Sezen	A Comparative Study of Deep Learning Models for Log Anomaly Detection Using the HDFS Dataset	5	167	Sarı Sarı, Arda Gök, Gökce Nur Yılmaz and Yücel Çimtay	Impact of Ambient Lighting and 3D Game Content on Depth Perception	5	33	Irem Bayraktar and Murat Bakırıcı	Decentralized Graph-Reinforced Learning Architecture for Autonomous Aerospace Coordination under Uncertainty
6	102	Halit Erdoğan, Hatice Altınok, Harun Uz and Hilal Tekgöz	A Comparative Analysis of Retrieval-Augmented Generation Architectures with Semantic Hashing for Enterprise Knowledge Systems	6	84	Muhammed Yahya Avar, Serhan Türkoglu, Ceyda Şen, Eyüp Ensar İskik and Ertuğrul Ordu	Forecasting Raw Milk Supply in Türkiye: A Comparative Study of Machine Learning and Statistical Methods	6	119	Hakan Yılmaz and Hürevren Kılıç	About Cooperative Behavior of LLM Agents in Different Repeated Social Dilemma Game Contexts	6	46	Nisa Ozpinar and Murat Bakırıcı	Domain-Generalized Aerial Perception via Diffusion-Driven Data Synthesis and Adversarial-Contrastive Feature Fusion
7	160	Halit Altınok, Hilal Tekgöz, Harun Uz and Halit Erdoğan	Designing a Metadata-Driven Semantic Search Interface for Literary Works	7	117	Yasmin Çetin, Yaseen Abubaker Sadeq Elkermeshi, Mohamed Satti and Ruken Zilan	LLMs' Challenge with Riddles: A Comparative Chain-of-Thought Reasoning Study	7	181	Muhammet Furkan Çam and Kasım Murat Karakaya	RetireSense: An Artificial Intelligence Driven Personalized Retirement Decision Support System	7	47	Nisa Ozpinar and Murat Bakırıcı	Unsupervised Domain Adaptation for Aerial Object Detection with Self-Distillation
15:30-16:00	Tea & Coffee Break														
TIME	IISEC 2026- February 5, 2026 (ANKARA 2 HALL 16:00- 18:00)			IISEC 2026- February 5, 2026 (İSAFAN HALL 16:00- 18:00)			IISEC 2026- February 5, 2026 (SEMERCANT HALL 16:00- 18:00)			IISEC 2026- February 5, 2026 (BUHARA HALL 16:00- 18:00)					
16:00- 18:00	ID	Session-9: Natural Language Processing and Text Mining	Chair: Dr. Ali BERKOL	ID	Session-10: Machine Learning Models and Evaluation	Chair: Prof. Dr. Süreyya AKYÜZ	ID	Session-11: AI and Machine Learning for Medical Informatics	Chair: Dr. Gökçen TONBUL	ID	Session-12: IoT Systems and Security	Chair: Prof. Dr. Yusuf Murat ERTEM			
1	13	Lütfi Ul Rahman Haqmal and Melih Güney	Natural Language Processing for Pashto: Challenges, Methods, and Opportunities in the Context of Low-Resource Languages	1	19	Alper Pahsa	Dynamics of Profilers for Molecular Dynamics Simulation Code Testing	1	177	Mehmet Aytuğ Yürük and Abbas Memiş	Age Prediction and Categorization from Retinal Fundus Images Using Residual Neural Network	1	87	Oğuzhan Çetinbaş, Okan Yaman and Yusuf Murat Ertem	Comparison of X-MAC and ContikiMAC protocols
2	184	Semih Teredi, Ebru Gökalp and Ahmet Dikici	Tool and Model for AI-Assisted Software Development: Concepts, Framework and Research Agenda	2	135	Mustafa Özcan Duman and Ahmed Emir Dirik	Holistic Audio Quality Assessment: Fixed-Size MFCC Spectral Features for CNN-Based MOS Prediction	2	110	Anamul Haque Arif, Md. Minhajul Abedin, Szwarc Dawid, Shamsul Enam Faruque and Asifur Rahaman	Automated Kidney Tumor Detection and Segmentation Using YOLOv1 and Grad-CAM	2	41	Zeynep Sahutoglu and Murat Bakırıcı	UV-Enabled Intelligent Traffic Management Using Multi-Modal Deep Learning and IoT Integration
3	39	Adilbek Dauletov, Nilufar Abdurakhmonova, Mumtin Babajanov, Axat Azamatov and Odina Abdurashidova	Designing a Metadata-Driven Semantic Search Interface for Literary Works	3	16	Bora Başaran and Seyit Mümin Cılasun	Prediction of Stock Prices via Time Series and Machine Learning Models	3	97	Savran Das, Arka Chakraborty, Arafat Alam Jion and Kazi Mahati Muhammad Samir	Ensemble Machine Learning-Based XAI Framework for Improving Thyroid Disease Classification Using Efficient Feature Selection Approaches	3	42	Zeynep Sahutoglu and Murat Bakırıcı	Adaptive Task Allocation and Data Fusion via Reinforcement Learning in Multi-Agent Drone-Ground Robot Inspection Systems
4	18	Abdurrahim Bakytzhan and Dina Kalbassova	ECC-Inspired Defenses and Redundant Ensembles for Reliable Kazakh Handwritten Text Recognition	4	172	Ayşe Kübra Gün and Eyüp Çınar	A Comparative Benchmarking of Financial Time Series Forecasting in Emerging Markets	4	67	Kazi Mahati Muhammad Samir and Savran Das	Robotic Handicapped Person Disorder Segmentation via Optimized 15-Channel Feature Mapping Through Multi-Domain Features Analysis	4	45	Yasin Enes Polat and Şerif Bahtiyar	DRONEGUARD: Distributed Role-based Organizational Network Encryption for UAV
5	93	Adilbek Dauletov, Uldona Abdurakhmonova, Nolita Matyukova, Dilraza Ganjoojadeva and Khurshida Bakhreva	Syntactic Alignment of Simple Sentence in Uzbek-English Parallel Corpora	5	175	Cilenus Tas, Roaa Alali, Özgür Koray Sahinogoz and Nurbanu Isik Delibata	Performance Comparison of Machine Learning based Anomaly Detection Systems	5	86	Hoc Minh Le and Van Thuong Nguyen	LUNA16 Lesion Segmentation with U-Net and CENN Preprocessing	5	116	Sathish Kumar Velayudam	Optimizing Customer Engagement through IoT Data Integration in CRM Ecosystems
6	150	Dilmaz Mustafina and Tamara Zhukabayeva	An Ontology-Based Framework for Personalized Educational Process Planning	6	154	Özgür Koray Sahinogoz, Halime Sıla Ozyurt and Selma Akkoc	An Efficient Ransomware Attack Detection Framework Using Machine Learning and Feature Reduction Techniques	6	91	Adil Ormanov, Deniz Timergazin, Zhanar Oralbekova and Askar Khaimuldin	Impact of Image Preprocessing Methods on Deep Learning Efficiency for Lung Cancer Diagnosis from CT Scans	6	113	Rejgopal Devabhaktuni and Gopalakrishnan Venkatasubbu	DSS Scope in Cloud-Native Checkout Systems
7	130	Ayşe Ocal	Emotional Dimensions of Human-AI Interaction: An NLP Analysis of ChatGPT Discourse	7	174	Özgür Koray Sahinogoz, Halime Sıla Ozyurt and Selma Akkoc	An Enhanced Machine Learning-Based Adversarial Malware Detection Framework with Static Analysis	7	61	Esra Yüzgeç Özdemir, Yasın Sönmez and Fatih Özürt	A Comparative Analysis of VIT-Based Embeddings and Machine Learning Classifiers for Parkinson's MRI Diagnosis	7	4	Aslıfıbalı Salıyed	Multi-Modal Sentiment Analysis Using Transformer Architectures on Social Media Big Data

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09:00 - 10:00	REGISTRATION																			
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10:00- 12:00	ID	Session-13: Machine Learning and Clustering Methods		Chair: Dr. Sevgi KOYUNCU TUNC	ID	Session-14: LLM Performance Evaluation		Chair: Dr. Rukiye SAVRAN KIZILTEPE	ID	Session-15: Network and Communication Systems		Chair: Dr. Merve Hatice KARATAS	ID	Session-16: Intelligent Robotics and Autonomous Systems		Chair: Assoc. Prof. Dr. Sultan CAN				
1	94	Abir Smiti		Precision in Progress: Advancing Medical Data Insights with Dynamic DBSCAN Clustering and Weighted Features	1	158	Berkay Saymoglu, Mert Fıçı, Fethi Bıldırıcı, Rukiye Savran Kızılıtepe and Murat Karakus		A White-Box Benchmark for Intrinsic Hallucination Detection in Turkish LLMs	1	26	Berkay Aydin, Burak Aydin, Deniz Tunc and Sedat Görmüş		Real-World Implementation of ETSI-Compliant 968-MHz 6TISCH Networks for Smart Metering	1	69	Erkut Dere, Mıtat Uysal and Samiye Aynur Uysal		Robot Control and Pathfinding with MBO, PSO and LLM-Inspired Methods	
2	105	Mehmet Hakan Durak and Seydi Demir		Hybrid Activity Detection via Dynamic Clustering in Cell-Free Massive MIMO Systems	2	36	Tulku Söker, Okan Coşkun and Ahmet Ünudulmaz		Optimizing Requirements Coverage in Software Testing Through Large Language Model-Based Scoring	2	12	Kassem Danach, Jomana Al Haj Hassan and Ali Raad		Quantum-Inspired Hub Location Framework for Drug-Target Interaction Networks	2	173	Arystan Zhulumbetov		Development of a 3d navigation system using trigonometric transformations for autonomous robot navigation and environmental exploration	
3	24	Yasin Sonmez, Omer Faruk Ertugrul and Emrah Aydemir		Comparative Evaluation of Non-Invasive Analysis	3	147	Necip Gözüaçık, Onur Adıgüzel, Adem Tekinbaş, Engin Sag and Sibel Malkos		A Multimodal LLM-Based AI Assistant for Intelligent Exploration of Airport Baggage Records	3	77	Maighalara Abdul Ali, Sajjad Ahmed Khan and Sultan Aldırmaz Çolak		Performance Evaluation of Adaptive Neurology for Mode 2 Autonomous V2X Communication	3	96	Şükriye Dalkılıç and Doğan Şengül		An Aerodynamics Analysis Model for Bird-Inspired Morphing Wings: Leveraging Machine Learning for Performance Optimization	
4	101	Mert Dikmen and Mehmet Burak Akgun		Quantization Robustness Under Pruning-Induced Sparsity in CNNs	4	190	Mehmet Ali Özer and Salih Dündar		Evaluating LLM Performance on CWE Identification and CVSS Estimation	4	7	Mohammad Arif Sobhan Bhuiyan		An Efficient Switch-Capacitor Charge Pump for Enhanced PLL Performance in 5G Transceivers	4	70	Cihan Ural, Ali Salt Ozer and İkay Cinar		Machine Learning Evaluation of Servo Motor Performance for Efficient Control Strategies	
5	160	Dogan Erdogan, Ayşak Tuzmen Erdogan, Vedi Barış Colak, Fahri Çankut Aksöy, Bürç Fatih Aksöy and Mustafa Alparslan Zehir		Fine-Grained Per-Outlet Hourly Carbon Emission Assessment in Data Centers via Intelligent PDUs Employing Data-Driven Clustering	5	90	Ani Kokolishvili		A study of the performance of Large Language Models in Text-to-SQL tasks	5	145	Mine Arduan, Mohammed Abubald, Mehmet Başaran, Sultan Aldırmaz Çolak and Lütfiye Durak Ata		Performance Analysis of RIS-Assisted Wireless Networks with Q-Learning-Based Phase Shift Optimization	5	202	Beyza Duran, Gülcihan Özdemir, Ömer Melih Gül and Mehmet Akif Yazıcı		Fuzzy Logic-Based Approach for Battery Constrained UAV Data Collection in Robotic Wireless Sensor Networks	
6	40	Öykü Sucuoğlu, Yağmur Fatma Birinci, Heliin Arslan and Rahim Dehkharghani		Automated Error Detection and Correction in Technical Reports: A Rule-Based Approach	6	103	Merve Onaran Atalay, Mahmut Nedim Alpdemir, Ayşe Gül Özkan, Oğuzcan Karaman, Yavuz Kaan Akyüz, Talha Fatih Bülbül, Ece Kumkale Açıkgöz and Eda Arısoy		Automated Rawstory-to-Video Generation from Nasreddin Hodja Tales via LLM-Orchestration	6	125	Mine Arduan, Sultan Aldırmaz Çolak, Yasin Çelik, Mustafa Nämdar, Arif Bağışmış, Lütfiye Durak Ata and Çağrı Özgenç Etemoglu		RIS-Enabled ISAC in Post-Disaster Communications	6	112	Gül Aysu Çakır, Cansu Hatun and Meral Özsarısan Yatak		Fuzzy Decision Support System for Battery Selection of Electric Vehicles	
7	108	Hannan Toprak and Ruken Zilan		Automating Software Documentation with nn and Large Language Models: A GitHub and Jira to Confluence Case Study	7	75	Davut Çulha		Assessing Factual Knowledge in Large Language Models Using Prime Recall											
12:30-13:30												Lunch Break								
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13:30- 15:15	INTERNATIONAL IEEE BLOCKCHAIN WORKSHOP ANKARA 2026			ID	Session-17: AI for Image Processing and Object Detection		Chair: Assoc. Prof. Dr. Mehmet Cem ÇATALBAŞ	ID	Session-18: VR and AI-Assisted Software Systems		Chair: Dr. Damla TOPALLI	ID	Session-19: Deep and Reinforcement Learning Systems		Chair: Dr. Kerem AY					
Prof. Dr. Şeref SAĞIROĞLU, Chair of IEEE Blockchain Türkiye			1	132	Rabia Yavuz, Mehmet Cem Çatalbaş and Cansel Fıçı		Comparative Performance of YOLOv5, YOLOv6, and YOLOv11 for Person Detection in Thermal Imagery	1	186	Bilge Kagan Pamuk, Aysa Sultan Sahin, Suleyman Omer Çankaya, Gülsüm Tavus, Enes Asana, Damla Topalli and Zafer Kadirhan		Evaluating Usability and User Experience in a Virtual Reality-Based Driving Simulation	1	95	Esma Şen, Melih Küçük, Harun Yahya Ünal and İbrahim Kartal		Deep Reinforcement Learning for Sustainable and Personalized Meal Planning Harmonizing Culinary Preference and Environmental Impact			
Prof. Dr. Ali YAZICI, Chair of IISEC Conference			2	131	Rabia Yavuz, Mehmet Cem Çatalbaş and Cansel Fıçı		Evaluation of Thermal Image Denoising Algorithms under Optimized Noise Constraints	2	191	Cemre Sude Akdag, Zafer Kadirhan and Damla Topalli		An AI-Based RGBD Framework for Cross-View Geo-Localization	2	185	Nejat Tukenmez, Melik Ziya Yakut and O. Seta Boğosyan		A Comparative Assessment of Reinforcement Learning Algorithms on Quadrotor Motions			
Session Chair: Prof. Dr. Sedat AKLEYEK			3	141	Gizem Efe and Pakize Erdoğmuş		Development of a Deep Learning-Based Object Detection Model Optimized for Edge Devices Using Thermal Imaging Data	3	50	Çağan Özdeş and Gürsüm Kayabaşı Koru		FinAI: AI-Driven Web Platform for Stock Price Forecasting Using Ensemble Machine Learning Models	3	6	Nur Kattaw, Farah Abu-Dabaseh, Mohammad Alsaadi, Nabil Mazyad and Saleh Hunedi		SOAR-as-a-Service: Implementing Cloud-Based Security Automation on AWS			
Invited Speaker-1: Assoc. Prof. Dr. Murat KARAKUŞ		Before Deployment: Designing and Evaluating Blockchain Systems through Simulations and Software Tools		4	62	Gizem Ünal Özden and Derya Yılmaz		Comparison of DTR and YOLO11x for Small Object Detection and Motion Direction Estimation	4	176	Sezer Atas, Mete Serpil, Alperen Berke Çetinkaya and Muhammed Yusuf Özcan		Transformative Technologies in Neurosurgery: A Systematic Literature Review	4	144	Suleyman Güzey and Emrah Hancer		A Hybridized Feature Construction Method Based on Symbolic Transformers and Evolutionary Forest for Regression		
Invited Speaker-2: Dr. Güven FİDAN		Blockchain-Based Tokenization of Real-World Assets		5	187	Abukhassym Khidaybayev, Zhanar Oralbekova, Elvira Altukhambetova and Makpal Zhatyrbayeva		Evaluation of Advanced Object Detection Architectures for the Central Asian Food Sector: A Study with YOLO and DetectNet	5	78	Omar Saeed and Mehmet Emin Yüksel		An Intelligent Triage System for Hospital Emergency Services Based on Large Language Models and Machine Learning	5	192	Halice Elif Arıbaci, Özyüksel Bozdağ, Arda Kahraman and Mustafa Berk Keskin		Precision Available Data for Smart and Precise Agriculture: A Systematic Review		
Invited Speaker-3: Assoc. Prof. Dr. Murat OSMANOĞLU		Blockchain in Large Language Models		6	171	Hüseyin Ateş Hergül, Rabia Yavuz, Mehmet Cem Çatalbaş and Cansel Fıçı		FFPGA-Based Performance Enhancement of BLDC Motor Drives for UAV Applications						6	193	Egemen Bank, Umut Şener and Mehmet Teoman Pamukçu		Towards a Project Success Index for Defense Industry: A Systematic Literature Review		
15:15-16:00												Tea & Coffee Break								
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16:00- 17:30	ID	Session-20: Blockchain Technologies		Chair: Dr. Güven FİDAN	ID	Session-21: Algorithms and Algorithmic Analysis		Chair: Dr. Deniz CANTÜRK	ID	Session-22: LLMs and Machine Learning		Chair: Prof. Dr. Meltem ERYILMAZ	ID	Session-23: Applied AI Systems and NLP		Chair: Prof. Dr. Ali YAZICI				
1	11	Lianna Ma, Fahit Gulhan, Rukiye Savran Kızılıtepe and Murat Karakus		Blockchain-Based E-Voting with Dual-Authority Certification and Homomorphic Encryption	1	120	Tobias Vilbrand Rishøj Jensen, Maryamasad Tahavori, Hamid Mirshekali and Hamid Reza Shaker		Automating Machine Learning Optimization for Fault Prediction in District Heating Using Large Language Models	1	129	Farouz Safer, İbrahim Sefer and Meltem Eryılmaz		From Signs to Sentences: A Real-Time End-to-End Turkish Sign Language Translation Pipeline	1	38	Fahmi Fahmi, Bayu Perkasa, Muhammad Fahriza, Rifky Daulay, Muhammad Al'Hapis and Fery Burkil		Automatic Water Bottling System using Robot Arm Developed for Home Industry Depot in Indonesia	
2	14	Davut Çulha		Blockchain-based Swarm Drones for Surveillance	2	104	Demir Balamir, Deniz Çantürk and Tansel Dokeröker		New Learning-Assisted Memetic Algorithm for the Closest-Nearest Traveling Salesman Problem (LA-CTSP)	2	118	Selçuk Aslan and Tevfik Erkin		Analyzing the Heuristic of the Back-and-Forth (B&F) Algorithm for Increasing Number of Points	2	63	Ercan Ercan, Emre Simjanjutak, Tigor Hamonangan Nasution, Soeharwinto, Fahmi Fahmi and A.Malik. Mohd Ali		Integration of Contactless RFID Payment into a Solar-Powered Mobile Phone Charging Station	
3	68	Haktan Aynıbaş and Davut Çulha		Edge-Enabled Blockchain Architecture for Scalable and Trustworthy IoT Data Marketplaces	3	189	Deniz Çantürk		Enhancing GPU Performance with Hierarchical Rendering Processes in Safety Critical Systems	3	5	Gözde Alp		Surrogate-Assisted, Uncertainty-Aware NSGA-II for Vehicle Crashworthiness Design	3	79	Tigor Hamonangan Nasution, Muhammad İrfan Yusuf, Fahmi Fahmi, Soeharwinto, Amali Amalia and Hasan Siregar		Implementation of Speech Recognition and Face Detection in a Student Service Information System	
4	143	Kübra Şeyhan, Sedat Akleyek and Ahmet Faruk Dursun		Quantum Safe Lattice-Based Lightweight Authentication Protocol	4	188	Emirhan Yılmaz and Elif Kurtaran Ozbudak		Simulating Quantum Attacks on Classical Cryptography with CUDA	4	82	Yelaman Ismagulov and Aigul Adamova		Machine Learning Approach for Anomaly Detection in Smart Home Network Traffic	4	59	Boz Elov, Mukhabat Karibanova, Tursunay Yusupova and Marufjon Amirkulov		Developing and Processing the Uzbek-English Parallel Corpus: Approaches and Computational Tools	
					5	66	Edel Abreu Hernández, Rafael Martínez Estévez, Asday Savón Berenguer and Sorin Aurel Moraru		Impact of dataset size on fine-tuning multilingual BERT for multiclass classification task.	5	159	Arjun Kaarat, Venkata Jaipal Reddy Battula and Richard Segall		Fitting the Void: Residual-Aware Geometric Packing for GenAI Workloads	5	74	Boz Elov and Marufjon Amirkulov		Extralinguistic Requirements for the Uzbek-English Parallel Corpus	
17:30- 18:00	IISEC 2026- February 6, 2026- CLOSING CEREMONY (MAIN CONFERENCE HALL 17:30- 18:00)																			