

CONFERENCE PROGRAM IEEE HONET-ICT

Day 1: Tuesday, December 02, 2025

INAUGURATION CEREMONY

Location	AUDITORIUM		
09:30 - 10:45	Registration of on-campus speakers, session chairs and guests		
10:45 - 11:00	Guests to be seated at the Venue		
11:00 - 11:05	Tilawat-e-Quran		
11:05 - 11:10	National Anthem		
11:10 - 11:20	Conference Introduction by steering chair (Prof. Dr. Hassan Zaidi Pro-Rector (Acad) , GIKI)		
11:20 - 11:25	Remarks by IEEE Islamabad Section Officials/Chair		
11:25 - 11:35	Address by Rector: (Prof. Dr. Fazal Khaild, Rector GIKI)		
11:35 - 11:45	Welcome Address by Conference Patron in Chief/Patron		
11:45 - 12:10	KeyNote Talk 1: Artificial Intelligence (AI) and the Fourth Industrial Revolution (4IR): Exploring Social and Ethical Implications Speaker: Dr. Ahmed S. Khan (DeVry University, Addison, Illinois, USA)		
12:10 - 12:35	KeyNote Talk 2 (online): Hierarchical control & operation of locally dist. energy resources for enhancing the bulk power grid reliability, resilience, sec., & economics Speaker: Dr. Mohammed Shahidehpour (Illinois Institute of Technology)		
12:35 - 13:00	KeyNote Talk 3: Enabling the AI Revolution – Advancing Hybrid Packaging Technology for Next Generation Multi-Die Systems for AI-Chip Manufacturing Speaker: Dr. M Kizar Bhutta (Kinexus Group, Benton Harbor, Michigan, USA)		
13:00 - 13:20	Address by Chief Guest: (Dr Khalid Maqbool Siddiqui, Federal Minister Education)		
13:20 - 13:35	Presentation of Sounviers/Shields		
13:35 – 14:35	Lunch (Café/Main lobby) and Prayer Break		
	Technical Session 1 (TS1) Applied AI	Technical Session 2 (TS2) Computer and Comm. Netw. / Comp. Security	Technical Session 3 (TS3) Energy and Power Technologies
Location	MLH1-NAB	MLH2-NAB	MLH3-NAB
	Session Chair: Dr. Zahid Mehmood, HoD, CE, COMSATS, Abbottabad Session Co-Chairs: Dr. Abid Imran	Session Chair: Dr. Syed Ali Hassan, SECS, NUST Session Co-Chairs: Dr Qamar Abbas	Session Chair: Dr. Umar Masood (Itlay) Session Co-Chairs: Dr Usman Habib
14:40-15:00	Invited Talk: <i>When Machines See Better: AI Innovations in Real-world Imaging</i> by Dr Zahid Jehangiri, HoD, CE, COMSATS, Abbottabad	Invited Talk: <i>Reconfigurable Intelligent Surfaces: Towards Intelligent 6G Wireless Networks</i>	Invited Talk: <i>Shaping a Sustainable Future: Harnessing Laser-Driven Synthesis of Advanced Materials for Renewable Energy Generation, Energy Storage, and Green Hydrogen</i> by Dr M. A. Gondal, KFUPM, KSA
15:00 - 17:00 15 mins / paper	Papers TS1-1 to TS1-7 (7 papers) Certificate distribution	Papers TS2-1 to TS2-7 (7 papers) Certificate distribution	Papers TS3-1 to TS3-4 (4 papers) Certificate distribution
Workshops/Symposium			
	Symposium on Smart Sensing for e-Healthcare Applications using IoT, AI and ML Technologies	Empowering STEM Graduate Programs with AI, Simulation, and Remote Visualization Tools	
Location	Cyber Lab NAB	AI Lab NAB	
14:30– 17:00	Resource Person: M. Aslam, Prof. Maj Gen (Retd.) Vice Chancellor, City University, Islamabad, Pakistan Resource Person: Muhammad Ilyas, Ph.D. Professor, College of Engineering and Computer Science, Florida Atlantic University, Resource Person: Engr. Shaftab Ahmad , University of North Carolina at Charlotte	Resource Person: Ahmed S Khan, Ph.D., Fulbright Specialist (2017-2022)	
Hiking for International Participants			
Bonfire / BBQ			

Updated: 11/22/2025

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Day 2: Wednesday, December 03, 2025

	Technical Session 4 (TS4) AI in Healthcare	Technical Session 5 (TS5) Computer and Comm. Netw. / Netw. Security	Workshop 1: Quantum Computing	Workshop 2: Agentic AI
Location	MLH1-NAB	MLH2-NAB	AI Lab NAB	DA LAB NAB
	Session Chair: Dr. Mozam Khattak (Quaid e Azam University) Session Co-Chairs: Dr. Hanif	Session Chair: Dr Hesham, MD Alter Technology Solutions, UAE Session Co-Chairs: Dr. Ahmed Kamal	Resource Person: Dr. Tahir Naseem , GIKI	Resource Person: Dr. Ali Imran, GIKI
09:00 – 11:00 15 mins / paper	Papers TS4-1 to TS4-6 (6 papers) Certificate distribution	Papers TS5-1 to TS5-5 (5 papers) Certificate distribution	Invited Talk: <i>Dr Ashfaq Khokhar (Online)</i>	Ms. Javeria
PLENARY SESSION #1				
Location	Brabers Building			
11:00 - 13:30	<p>Topic: Higher Education Forum: Emerging Technologies and Challenges for Effective Teaching and Learning in Higher Education</p> <p>Moderator: Dr Yasin Raja, Dr. S.M.H. Zaidi</p> <hr/> <p>Chief Guest : Federal Secretary Education (Mr. Naeem Mehub) Panelist Industry: Dr. Shoaib A Khan, (CEO, CARE Pvt Ltd), Syed Qutbuddin Hassan (CEO Aspire), Mr Salim Ghauri (CEO Netsol Technologies) Mr Kamal Mian (CEO Fast Cables) Panelist Governance: Kashif Asfandiyar (Ministry of IT) Panelist Academia: Dr. Rafia (VC University of Kohsar), Dr. Inayat Ullah Khan (VC UET Taxila), Dr. Rubina, Dr. Rao Afzal (VC Bahawalpur), Dr. Ilyas (VC Kohat University), Dr. Adnan Noor Mian (Rector ITU), Dr. Salim ur Rehman (VC Sarhad University), Dr. Najamul Islam (Rector NAMAL), Dr. Mujahid (Rector Pak- Austria), Dr. Aslam, Dr. M. Ashraf (Rector Uni. of Lahore), Dr Fazal Khalid (Rector GIKI).</p> <hr/> <p>KeyNote Talk: <i>Harnessing AI for Higher Education in Pakistan</i>, Prof. Dr. Hassan Zaidi, Pro Rector (Acad), GIKI</p> <p>KeyNote Talk: <i>Unexplored Dimensions of Innovation-New Paradigm for Global Collaborations in Era of AI</i>, M. Khizar Bhutta, Ph.D., Director, Apprenticeship Solutions Program, Kinexus Group, Benton Harbor, MI, USA.</p> <p>KeyNote Talk: <i>Effective Teaching and Learning in the Era of AI</i>, Ahmed S. Khan, Ph.D., Fulbright Specialist Scholar (2017-2022), World Learning Inc, U.S. Dept. of State's Bureau of Educational & Cultural Affairs (ECA)</p>			
13:30 – 14:30	Lunch (Café/Main lobby) and Prayer Break			
	Technical Session 6 (TS6) Applied AI	Technical Session 7 (TS7) Blockchains / Robotics / Photonics	Industry Expo	3-MT
Location	MLH1-NAB	MLH2-NAB	NAB	LH5-NAB
14:40 - 15:00	Session Chair: Dr. Junaid Zubairi Session Co-Chairs: Dr. Ali Imran	Session Chair: Dr. Ghalib Asadullah Shah, Air University Session Co-Chairs: Dr. Ghulam Abbas	Organizer: Dir. ORIC / Dir. Incubation	Organizer: Dr. Sarah
15:00 - 17:00 15 mins / paper	Invited Talk: <i>Digital Twin for the Manhattan Grid: A Simulation Framework for Traffic Management Research</i> by Dr. Junaid Zubairi, SUNY Fredonia, USA.			
	Papers TS6-1 to TS6-7 (7 papers) Certificate distribution	Papers TS7-1 to TS7-4 (4 papers) Certificate distribution		
18:30 - 19:30	Banquet at Guest House / Faculty Club for All VIPs			
19:30 - 20:30	Social Event / Cultural Night (Drama / Music / Qawali / Ghazal etc)			

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Day 3: Thursday, December 04, 2025

Technical Session 8 (TS8) AI in Healthcare & Smart Cities		Workshop 3: Workshop on GenAI Applications in Healthcare Robotics Lab NAB Title: HealthIntelligence: Hands on Workshop on GenAI Applications in Healthcare Organizer: Dr. Muhammad Hanif, FCSE, GIKI
Location	MLH1-NAB	
Session Chair: Dr. Noman Naseer Session Co-Chairs: Dr. Shahab Ansari		
11:00 - 11:20		
11:20 –13:10 15 mins / paper	Papers TS8-1 to TS8-7 (7 papers) Certificate distribution	
13:30 – 14:30 Lunch (Café/Main lobby) and Prayer Break		
Workshop 2: Robotics		Workshop 3: Smart Cities
Location	Robotics Lab NAB	DA Lab NAB
Organizer : Dr. Abid Imran ,FME, GIKI		Organizer: Dr. Sarah Iqbal , GIKI
10:30 - 13:00	Title: <i>Next-Gen Robotics: AI-Driven 3D Grasping and SLAM-Based Autonomous Navigation</i>	Invited Talk: <i>Towards Sustainable Smart Cities: AnyLogic Simulation for Intelligent Traffic Control</i> by Prof. Dr. Zaidi.
CLOSING CEREMONY		
Location	AUDITORIUM/BRABERS BUILDING	
14:30 - 14:40	Guests to be seated	
14:40 - 14:45	Tilawat-e-Quran	
14:45 - 14:50	National Anthem	
14:50 - 15:15	Keynote Talk: Security and Privacy for Everyone Speaker : Prof. Dr. Katharina Krombholz (CISPA Helmholtz Center for Information Security)	
15:15 - 15:40	Keynote Talk (online): Building Integrated Photovoltaic (BIPV) Systems for future zero-net-energy buildings Speaker: Dr. Kamal Alamah (Gwangju Insititute of Science and Technology)	
15:40 - 15:50	Conference Summary	
15:50 - 16:00	Address by Rector	
16:00 - 16:10	Remaks by Conference Patron/Patron in Chief	
16:10 - 16:30	Address by Chief Guest (Mr Zahid Rafiq, Chairman, FHDL Capital Smart City)	
16:30 - 16:45	Presentation of Shields	
16:45 - 17:15	Hi-Tea	

SESSION	PAPER	TITLE	AUTHORS	
TS1 Applied AI	TS1-1	Pashto Poetry Attribution using Deep Learning Techniques	<i>Ali Muhammad Asad, Shayan Shoaib Patel, Sadiqah Mushtaq, Lyebe Abid, Abdul Samad and Sandesh Kumar (Habib University, Pakistan)</i>	
	TS1-2	Bidirectional LSTM for Context-Rich Abstractive Text Summarization: A Step Beyond Sequence-to-Sequence	<i>Qurat Ul Ain and Sardar Un Nisa (NUML, Pakistan); Amana Amana (Bahria University, Pakistan); Maria Hilal and Syed Hasnain Kabir (NUST, Pakistan); Fazli Subhan (NUML, Pakistan)</i>	
	TS1-3	Q-FOX: A Reinforcement Learning Framework with FOX-Inspired Adaptive Hyperparameter Optimization	<i>Muhammad Usman Zafar (Institute of Space Technology, Pakistan); Shehla Gul (Institute of Space Technology Islamabad, Pakistan)</i>	
	TS1-4	Fine-Tuning Isn't Enough: Performance Comparison of Vision Language Models for LaTeX Image Translation	<i>Alishba Ramzan (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan); Wasil Fawad Malik (Ghulam Ishaq Khan Institute, Pakistan)</i>	
	TS1-5	Utilizing Keypoint R-CNN for Automated	<i>Hira Qayyum (Ghulam Ishaq Khan Institute, Topi, Pakistan); Ishika Kirpalani (Ghulam Ishaq Khan Institute, Topi, Pakistan)</i>	CR
	TS1-6	Highly Scalable and Flexible Accelerator Architecture for Vision based Applications	<i>Syed Yasir Ali (National Institute of Electronics, Pakistan); Muhammad Usman (National University of Computer and Emerging Sciences (FAST-NU), Pakistan); Haroon Waris (Nanjing University of Aeronautics and Astronautics (NUAA), China); Nasir Mohiyuddin (Centres of Excellence in Science and Applied Technologies, Pakistan); Muhammad Kamran Bhatti (Bahria University & National Institute of Electronics, Pakistan)</i>	
	TS1-7	Urdu Aspect-Based Sentiment Analysis: A Hybrid Dataset Augmentation Using Large Language Model	<i>Zoya Maqsood Alam (Ghulam Ishaq Khan Institute of Engineering and Technology, Pakistan); Seemab Latif (National University of Science and Technology, Pakistan)</i>	CR
TS2 Computer and Communication Networks / Network Security	TS2-1	Securing the Edge: An AI-Driven Detection of Intrinsic Cyber Threats via Current-Profiling in IoT Networks	<i>Uvais Qidwai and Amro Sayed Mahmoud Moursi (Qatar University, Qatar); Syed Rafay Hasan (Tennessee Tech University, USA); Abdulla K Al-Ali and Abdelkarim Erradi (Qatar University, Qatar)</i>	
	TS2-2	Attention-Enhanced CNN-BiLSTM Framework for Dynamic Behavior-Based Ransomware Family Classification	<i>Sheikh Muhammad Zeeshan Javed (National University of Science and Technology Pakistan, Pakistan); Muhammad Faisal Amjad (National University of Sciences and Technology & National University of Sciences and Technology Pakistan, Pakistan); Shahzaib Tahir (National University of Sciences and Technology, Pakistan); Shahid Ali (CESAT, Pakistan)</i>	R
	TS2-3	FGSM-CW Hardened Static Android-Malware Detection with Incremental PCA on the CCCS-CIC AndMal-2020 Corpus	<i>Zuha Khalid (National University of Science and Technology, Pakistan & RadiusXR, Citrusbits IT Company, Pakistan); Muhammad Zeeshan (National University of Sciences and Technology (NUST), Pakistan); Inam Ullah (Safarfone, Canada)</i>	
	TS2-4	LLM-based Anomaly Detection for Digital Substation Cybersecurity	<i>Liam McGevna, Jason Chow and Jeffery Luo (Stony Brook University, USA); Priscilla Kyei Danso (Stony Brook University, USA & None, USA)</i>	
	TS2-5	Resource Optimization Strategy in Reconfigurable Intelligent Surface Aided 6G Network	<i>Umar Ghafoor (National University of Sciences and Technology, Pakistan); Adil Siddiqui (Military College of Signals, National University of Sciences and Technology, Pakistan)</i>	
	TS2-6	Hybrid Multiple Access-Assisted Semantic-Aware Resource Allocation Framework	<i>Sana Shakeel (National University of Science and Technology, Pakistan); Umar Ghafoor (National University of Sciences and Technology, Pakistan)</i>	
	TS2-7	Customizable Verification Framework for Mil-Std 1553 Avionics Bus Interface	<i>Muhammad Kashif Minhas (IST, Pakistan); Waqar Ahmad (Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Pakistan); Haroon Waris (Nanjing University of Aeronautics and Astronautics (NUAA), China); Muhammad Usman (Centers of Excellence in Science & Applied Technologies, Pakistan); Nasir Mohiyuddin (Centers of Excellence in Science and Applied Technologies, Pakistan); Sajid Baloch (Centers of Excellence in Science & Applied Technologies, Pakistan)</i>	CR
TS3 Energy and Power Technologies	TS3-1	Optimal Energy Consumption Approach Considering Demand Response for Renewable Energy Communities and Smart Grids	<i>Ateeq Ur Rehman (Università Degli Studi di Roma Tor Vergata, Pakistan & University of Engineering and Technology Peshawar, Pakistan); Yasir Abbas Khan (University of Engineering & Technology, Peshawar, Pakistan); Sandra Corasaniti (Università degli Studi di Roma Tor Vergata, Italy); Zahid Wadud Mufti (University of Engineering and Technology Peshawar, Pakistan); Paolo Coppa (Università degli Studi di Roma Tor Vergata, Italy); Atif Sardar Khan (UET Peshawar, Pakistan)</i>	
	TS3-2	Topology-Aware Deep Reinforcement Learning for Renewable Dispatch: A Case Study on the Peshawar Grid	<i>Muhammad Arslan Khurshid, and Gul Muhammad Khan (University of Engineering and Technology Peshawar, Pakistan)</i>	
	TS3-3	Real-Time Scheduling for Coordinated Renewable Energy Communities with P2P Energy Sharing: A Forecast-Free Approach for Optimal Residential Energy Management (Short paper)	<i>Ateeq Ur Rehman (Università Degli Studi di Roma Tor Vergata, Pakistan & University of Engineering and Technology Peshawar, Pakistan); Sandra Corasaniti (Università degli Studi di Roma Tor Vergata, Italy)</i>	
	TS3-4	AI-Based Real-Time Health Monitoring of DC-Link Capacitors in Power Electronic Converters for Smart Grid Applications	<i>Affaq Qamar (Imam Mohammad Ibn Saud Islamic University, Saudi Arabia)</i>	
TS4 AI in Healthcare	TS4-1	Benchmarking Classical and Deep Learning Models for Dementia Diagnosis A Cross-Dataset, Interpretable Machine Learning Study	<i>Sandeela Waseem (Universidad de Alcalá (UAH), Spain)</i>	
	TS4-2	Automating ROP Diagnosis and Severity with Deep Learning	<i>Mansoor Alam, Ahsan Siddiqui, Zohaib Aslam, Abdul Samad and Sandesh Kumar (Habib University, Pakistan)</i>	R
	TS4-3	Elderly Fall Prediction and Detection: A Multi-Sensor Embedded Approach	<i>Muhammad Ghazan Khan (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan & GIKI, Pakistan); Muhammad Hameez Khan Yousafzai and Waleed Tariq Sethi (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan)</i>	
	TS4-4	Applications of Large Language Models in Breast Cancer Diagnosis: A Comprehensive Review of Techniques and Outcomes	<i>Muhammad Ahmed (Ghulam Ishaq Khan Institute, Pakistan); Ghulam Abbas (GIK Institute of Engineering Sciences & Technology, Pakistan & GIK Institute of Engineering Sciences and Technology, Pakistan)</i>	
	TS4-5	Unsupervised Lung Cancer Detection Using f-AnoGAN With Data Augmentation and Synthetic Data Generation	<i>Maimoona Saba (Ghulam Ishaq Khan Institute of Engineering and Technology, Pakistan); Shahabuddin Ansari (Giki, Pakistan)</i>	R
	TS4-6	AnxieEase: Your Wearable and Mobile Companion for Anxiety Monitoring	<i>Mark Joseph R. Molina, Lawrence John H Lansangan, Mc Joben R. Reyes and Elmer M Aliño (National University, Philippines)</i>	CR

TS5 Computer and Communication Networks / Network Security	TS5-1	Enhancing Zero Trust in SDN: A Real-Time Token Revocation and Rotation mechanism for Multi-Tenant Security	<i>Madam Hussain Shah and Robina Rashid (Quaid-i-Azam University, Islamabad, Pakistan); Madiha Haider Syed (Quaid-i-Azam University, Pakistan); Adeel Anjum (Quaid-i-Azam University Islamabad, Pakistan); Mohammad Ilyas (Florida Atlantic University, USA)</i>	
	TS5-2	Design and Analysis of a Multiband Reflectarray Metasurface for 5G High Band IoT Networks	<i>Zaeem Arshad (GIK Institute, Pakistan); Nadir Hussain (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan); Massam Reza and Faiza Batool (GIK Institute, Pakistan); Waleed Tariq Sethi (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan)</i>	
	TS5-3	Mitigating DDR4 Timing Side-Channels in FPGA Cloud Platforms	<i>Vineet Chadalavada, Nahush D Tambe, Dhruvakumar V Aklekar and Fareena Saqib (University of North Carolina at Charlotte, USA)</i>	
	TS5-4	Gate-Level Information Flow Tracking for securing 3PIPs	<i>Dhruvakumar V Aklekar (University of North Carolina at Charlotte, USA); Vineet Chadalavada (University of North Carolina at Charlotte, USA & Sathyabama, India); Naseeruddin Lodge and Fareena Saqib (University of North Carolina at Charlotte, USA)</i>	
	TS5-5	Statistical Route Feasibility in Metro-Access Optical Networks for Next-Generation RAN X-Haul	<i>Ahtisham Ali (Consorzio TOP-IX, Italy & Politecnico di Torino, Italy); Andrea Rosso and Muhammad Umar Masood (Politecnico di Torino, Italy); Michela Pollone (Consorzio TOP-IX, Italy); Alessandro Galardini (TOP-IX Consortium, Italy); Vittorio Curri (Politecnico di Torino, Italy)</i>	
TS6 Applied AI	TS6-1	Assessing and Mitigating Multi-Turn Jailbreak Vulnerabilities in Large Language Models: A Crescendo Attack Study	<i>Muhammad Saad, Shafaq Fatima Mughal, Muhammad Mustafa, Ikhtias Ahmed and Adnan Masood (Habib University, Pakistan)</i>	R
	TS6-2	Hyperspectral Image Denoising using a Realistic Noise Model	<i>Aneela Shaheen (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi Pakistan, Pakistan); Asad Mahmood (INFONET, Gwangju Institute of Science and Technology & Center for Advanced Studies in Engineering (CASE), Pakistan)</i>	R
	TS6-3	Architecture-Aware Automated Logic Locking: A Machine Learning (ML)-Based Implementation	<i>Nahush D Tambe, Naseeruddin Lodge, Dhruvakumar V Aklekar and Fareena Saqib (University of North Carolina at Charlotte, USA)</i>	
	TS6-4	Counterfeit IC Detection via Federated Learning	<i>Naseeruddin Lodge (University of North Carolina at Charlotte, USA); Vineet Chadalavada (University of North Carolina at Charlotte, USA & Sathyabama, India); Nahush D Tambe, M. Yasin Akhtar Raja and Fareena Saqib (University of North Carolina at Charlotte, USA)</i>	
	TS6-5	Battery-Efficient IoT-Enabled Smart Helmet for Real-Time Motorcycle Accident Detection and Notification	<i>Khawaja Moez Ur Rahman (National University of Sciences and Technology (NUST), Pakistan); Khawaja Maaz Ur Rahman and Jannat Akbar (Aalto University, Finland); Rabeya Hamood and Ayaz Ur Rehman (North Dakota State University, USA); Khawaja Hammad Ur Rahman (National University of Sciences and Technology (NUST), Pakistan)</i>	
	TS6-6	Resource Allocation And Management in Multi-User Multi-Server Scenario Considering Due Time of Smart Device in Mobile Edge Computing Using Deep Neural Network	<i>Mazhar Hussain (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan); Zaiwar Ali (GIK Institute of Engineering Sciences and Technology, Pakistan); Fazal Muhammad (University of Engineering and Technology, Mardan, Pakistan); Laiba Asif (Ghulam Ishaq Khan Institute of Engineering Sciences & Technology Topi Swabi KPK, Pakistan)</i>	
	TS6-7	Deep Learning for Precise Leaf Segmentation and Counting in Tomato and Chilli Crops	<i>Mahnour Abeer and Rafia Mumtaz (National University of Sciences and Technology, Pakistan); Syed Mohammad Hassan Zaidi (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan); Zahid Mehmood (National Agricultural Research Center (NARC), Pakistan); Sultan Mehmood (National Agricultural Research Center, Pakistan); Muhammad Saqib Irshad (National University of Sciences and Technology, Pakistan)</i>	CR
TS7 Blockchains / Robotics / Photonics	TS7-1	Optimized Task Offloading and Resource Allocation in IoV via Blockchain-Integrated Genetic Algorithm	<i>Muhammad Noman Sohail (University of Lahore, Sarogdha Campus, Pakistan); Adeel Anjum (Quaid-i-Azam University Islamabad, Pakistan); Adnan Anjum (IBM, Pakistan); Muazzam A. Khan (Quaid i Azam University, Islamabad, Pakistan)</i>	R
	TS7-2	Powering Indoors: Optimizing Organic Solar Cells for Ambient Light	<i>Fatima Mohsin Zakai (Hamdard University Karachi, Sindh, Pakistan); Sumbel Ijaz (Government College University, Lahore, Pakistan)</i>	
	TS7-3	CanSat Impactor for Remote Agricultural Data Acquisition and Logging	<i>Lakshay Battu, Aaditya M More, Carrington Chun, Sheraz Saudagar and Muhammad Hassan Tanveer (Kennesaw State University, USA); Razvan Cristian Voicu (Georgia Institute of Technology, USA & Kennesaw State University, USA)</i>	
	TS7-4	Simulated Pick-and-Place with Husky UGV and Wheeled Robot	<i>Rommel Jones and Muhammad Hassan Tanveer (Kennesaw State University, USA); Razvan Cristian Voicu (Georgia Institute of Technology, USA & Kennesaw State University, USA)</i>	
TS8 AI in Healthcare & Smart Cities	TS8-1	A Unified Framework for Dental X-ray-to-Mask and Mask-to-X-ray Synthesis via Conditional Diffusion	<i>Shahroz Majid (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan); Shahabuddin Ansari (GIKI, Pakistan); Khuram Khan Jadoon (GIKI, Pakistan)</i>	R
	TS8-2	Leveraging Vertical Ground Reaction Force (VGRF) in Gait Assessment for Parkinson's Disease Severity	<i>Namra Afzal (National University of Sciences and Technology H12 Islamabad Pakistan & University of Engineering and Technology Lahore Pakistan, Pakistan); Javaid Iqbal and Asim Waris (National University of Sciences and Technology, Pakistan); Syed Omer Gilani (Abu Dhabi University, United Arab Emirates); Nida Shabbir (National University of Sciences and Technology, Pakistan & School of Mechanical and Manufacturing Engineering, Pakistan); Nazli Khuram (NUST Islamabad, Pakistan)</i>	
	TS8-3	Mung Bean Crop Health Monitoring and Disease Detection using Drone-based Imaging and Deep Learning	<i>Muhammad Jawad Bashir (National University of Science and Technology (NUST), Pakistan); Rafia Mumtaz (National University of Sciences and Technology, Pakistan); Syed Mohammad Hassan Zaidi (Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan); Muhammad Asad Ullah and Shahid Riaz Malik (National Agriculture Research Center, Pakistan); Zahid Mehmood (National Agricultural Research Center (NARC), Pakistan); Muhammad Saqib Irshad (National University of Sciences and Technology, Pakistan)</i>	CR
	TS8-4	Comparative Analysis of Transformer-Based Architectures for Traffic Flow Prediction	<i>Arsalan Khan and Khuram Shehzad Khattak (University of Engineering and Technology Peshawar, Pakistan); Zawar Hussain Khan (University of Hail, Saudi Arabia)</i>	
	TS8-5	Non-local Spatiotemporal Interactions for Future Vehicle Trajectory Prediction	<i>Sidra Rashid (Quaid-i-Azam University, Pakistan); Muazzam A. Khan (Quaid i Azam University, Islamabad, Pakistan); Muhammad Usman Akram (CEME NUST, Pakistan)</i>	
	TS8-6	Gasification of Agricultural Waste Streams for Secure Cooking Gas Supply of Rural and Isolated Communities (GAS-SCRIPT) (Short paper)	<i>Shahid Naveed (University of Engineering and Technology Lahore Pakistan, Pakistan)</i>	CR
	TS8-7	Detection of Lead Contamination in Indus River using Computer Vision and Remote Sensing	<i>Usama Kundi and Rafia Mumtaz (National University of Sciences and Technology, Pakistan); M Ahmed (NUST SEECS, Pakistan); Sadaf Mumtaz (Ziauddin University, Pakistan); Muhammad Ajmal Khan and Muhammad Saqib Irshad (National University of Sciences and Technology, Pakistan)</i>	CR