

ICDTDE2025

International Conferences on Digital Technology Driven Engineering 2025

ADDOPT2025 – OPTARCH2025 – DiGiCES2025 – OPTiii2025

Preliminary Technical Programme (Online)

Dates: 18–20 December 2025

Format: Online (hosted by Jordan University of Science and Technology, Jordan)

Conference Chairpersons

- Nikos D. Lagaros (Chairman), National Technical University of Athens, Greece
- Rajai Z. Alrousan (Co-Chairman), Jordan University of Science and Technology, Jordan
- Stelios K. Georgantzinis (Co-Chairman), National and Kapodistrian University of Athens, Greece
- Khairedin M. Abdalla (Co-Chairman), Jordan University of Science and Technology, Jordan
- Osama K. Nusier (Co-Chairman), Al-Albayt University, Jordan
- Evangelos Plevris (Co-Chairman), Qatar University, Qatar
- Giuseppe Carlo Marano (Co-Chairman), Politecnico di Torino, Italy
- Marios C. Phocas (Co-Chairman), University of Cyprus, Cyprus
- Mohammad A. Alhassan (Co-Chairman), JUST (Jordan) & AAU (UAE)



Time Zone and Platform

- All times are expressed in Eastern European Time (EET).
- The conferences will be held fully online via **MS Teams**.
- Access links to each virtual room will be sent to registered participants.

Day 1 – Thursday, 18 December 2025 (Online)

Common Opening

09:00–09:30	[ICDTDE2025 Opening & Welcome / Plenary Event] Meeting ID: 322 556 183 081 43	 Microsoft Teams
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	Passcode: 4BX2MF9d	
09:00–09:05	Welcome Speech	
09:05–09:20	Conference Chairman Speech	
09:20–09:25	Greece Embassy Speech	
09:25–09:30	Cyprus Embassy Speech	

Parallel Technical Sessions – Overview

Room / Track	09:30–11:00	11:00–12:30	12:30–14:00	14:00–15:30	15:30–17:00	17:00–18:30
Virtual Room A	[ICDTDE-TS01]	[ICDTDE-TS02]	[ICDTDE-TS03]	[ICDTDE-TS04]	[ICDTDE-TS05]	[ICDTDE-TS06]
Virtual Room B	[ICDTDE-TS07]	[ICDTDE-TS08]	[ICDTDE-TS09]	[ICDTDE-TS10]	[ICDTDE-TS11]	[ICDTDE-TS12]
Virtual Room C	[ICDTDE-TS13]	[ICDTDE-TS14]	[ICDTDE-TS15]	[ICDTDE-TS16]	[ICDTDE-TS17]	[ICDTDE-TS18]
Virtual Room D	[ICDTDE-TS19]	[ICDTDE-TS20]	[ICDTDE-TS21]	[ICDTDE-TS22]	[ICDTDE-TS23]	[ICDTDE-TS24]

Virtual Room A

09:30–11:00	Virtual Room A Meeting ID: 359 498 876 995 09 Passcode: st9yS28K
Session Chair: <i>Ali Berkay & Ilda Rusi</i> Session Code & Title: ICDTDE-TS01: Sustainable Architectural and Structural Design Optimization	
09:30–09:45	ICDTDE222: A Systematic Review of Protective Shelters for Archaeological Sites: Design, Environmental Control, and Sustainability <i>Özge Deniz TOKÖZ, Ali Berkay AVCI</i>
09:45–10:00	ICDTDE1000: An Optimization led Design Framework and Global Case Studies for Post Disaster Recovery Shelters <i>Aditya Singh</i>
10:00–10:15	ICDTDE480: Multi-Objective Optimization for Daylighting and Energy Efficiency in Tall Buildings <i>Ayah A. Alkhawaldeh, Hassan Judah, Nour Betoush</i>
10:15–10:30	ICDTDE573: Design-Oriented Charts for Passive Earth Pressure for Normally Consolidated and Over-Consolidated Sands in Homogeneous and Stratified Profiles <i>Mousa Bani Baker, Adel Hanna, Batool Al-Shorman, Abdulla Sharo</i>
10:30–10:45	ICDTDE312: Discussion on Structural Facade Using Perforated Structural Wall Panel for Multi-Storey Buildings <i>Ilda Rusi</i>
10:45–11:00	ICDTDE697: An eco-friendly geopolymer adsorbent for dyes and pharmaceutical compounds removal from aqueous solutions <i>Omar Najm, Esraa Sami Hijah, Ahmad Ayman, Ayman Alswaitti, Abdulrahman Ayman</i>

11:00–12:30	Virtual Room A Meeting ID: 315 038 041 476 40
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Passcode: PL3FF6ZB	
Session Chair: <i>Etin Indrayani & Howard Njoku</i> Session Code & Title: ICDTDE-TS02: Digital Transformation, Education Innovation, and User Behavior	
	
11:00–11:15	ICDTDE404: Digital Transformation to Improve Government Performance in Bangka Belitung Province Indonesia <i>Etin Indrayani, Ika Sartika, Mansyur Akhmad</i>
11:15–11:30	ICDTDE786: The Effect of Integrating Scratch Programming with Project-Based Learning in Fostering Students' Disposition <i>Noraini Lapawi, Kamisah Osman, Hazrati Husnin</i>
11:30–11:45	ICDTDE410: Estimating the Potentials for Indoor Thermal Comfort and Electric Vehicle Charging with BIPV in Nigeria <i>Nnabuike Ngwu, Josué Rock Segnon, Michael E. Nwokedi, Howard Njoku</i>
11:45–12:00	ICDTDE798: Readiness and Equity in AI-Supported Science Teaching: A Survey of Pre-Service Teachers <i>Samri Chongo, Alia Nabeela Ruzaimi</i>
12:00–12:15	ICDTDE708: Chemistry Educators' Insights into the 'Salts' Subtopic and Its Impact on Rural Students' Mental <i>Thelugu Novah Mary Guruloo, Kamisah Osman, Tan Siok Yee</i>
12:15–12:30	ICDTDE949: UTAUT2 and Online Shopping Anxiety: Evidence from Electronic Purchase Decisions in Indonesian <i>Efenly, and Princes, Elfindah</i>

12:30–14:00	
Virtual Room A	
Meeting ID: 367 346 198 049 60	
Passcode: dG7vA9pw	
Session Chair: <i>Zonghui Wang & Rayeh Nasr Al-Dala'ien</i> Session Code & Title: ICDTDE-TS03: AI-Driven Architectural Design and Structural Analysis	
	
12:30–12:45	ICDTDE450: Research on the Mapping Between Visual Semantic Features of AI-Generated Architectural Images to Styles and Typologies <i>Zonghui Wang, Huadi Liu, Shuangle Ding, Kissi Neizer Eugene</i>
12:45–13:00	ICDTDE529: Asymmetric Edge Support Degradation and its Effect on Slab Response under Touch-off Explosion <i>S. M. Anas, Rayeh Nasr Al-Dala'ien, Mohammed Benzerara, Sief Addeen Rababa</i>
13:00–13:15	ICDTDE993: Graph-Based Modeling of Corrugated Boards for Local Stress Analysis During Compression <i>NRicardo Fitas</i>
13:15–13:30	ICDTDE367: The Importance of Improving Methods for Determining the Load-Bearing Capacity of Reinforced Concrete Bridges in Operation Based on Technical Diagnostics <i>Botirov Bektosh, Botirova Nodira, Berdiyev Oblokul, Boboqulova Shaxzoda</i>
13:30–13:45	ICDTDE1080: Dynamic Characterization of Layered ground from Vibration Measurements <i>Hana Y. Shamayleh, Jamil Renno, Mohammed F. Hussein</i>

13:45–14:00	ICDTDE747: From Waste to Pavement: Life Cycle Assessment of Recycled Additives in Asphalt Pavement <i>Ansam Sawalha, Mai Alawneh, Ansam Qsymah</i>
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14:00–15:30	Virtual Room A Meeting ID: 387 637 978 885 05 Passcode: N8XA9ME9	
Session Chair: <i>Chengyu Liu</i> Session Code & Title: ICDTDE-TS04: Data-Driven Urban Systems and Infrastructure Optimization		
14:00–14:15	ICDTDE348: Nonlinear Associations Between Streetscape Visual Features and Perceived Safety in Historic Districts: An Interpretable Machine Learning Empirical Study <i>Zhangjingyi Liu, Chengyu Liu, Yangyang Song, Mohd Iskandar Bin Abd Malek, Nor Zalina Binti Harun</i>	
14:15–14:30	ICDTDE401: Digital Spatial Analysis of Historic District Renewal: A Space Syntax and GIS Approach <i>Chengyu Liu, Yihan Wang, Zhangjingyi Liu, Nor Haslina Ja'Far</i>	
14:30–14:45	ICDTDE772: Intelligent Power Allocation in NOMA-IBFD Systems: A Hybrid Machine Learning and Reinforcement Learning Approach for Interference Mitigation and Performance Optimization <i>Omer Waseem AL-Zaidi, Abdulkhamid MIRZAAKHMEDOV, Mohanad</i>	
14:45–15:00	ICDTDE1028: Entrepreneurship Enablers in Civil Infrastructure: A Systematic Review <i>Casilda Aulia Rahmadina, Agung Purnomo</i>	
15:00–15:15	ICDTDE788: BIM in Healthcare System: A Strategic Roadmap for Adoption in Egyptian Healthcare Facilities <i>Carole A. ElRaheb</i>	
15:15–15:30	ICDTDE840: Plan2FEM: Can Large Multimodal Models Turn Plans into Finite-Element Graphs? <i>Christos A. Papapostolou, Nikolaos D. Lagaros</i>	

15:30–17:00	Virtual Room A Meeting ID: 364 593 168 519 33 Passcode: DZ7pk7Xa	
Session Chair: <i>Agung Purnomo & Wei Weng</i> Code & Title: ICDTDE-TS05: AI and Optimization for Design and Decision Systems		
15:30–15:45	ICDTDE996: Core Outcomes of Artificial Intelligence for Product Design and Development: A Systematic Literature Review and Future Research <i>Agung Purnomo, Ahmad Syamil, Bhekti Setyowibowo, Mulyani Karmagatri, Halbana Tarmizi, Fairuz Iqbal Maulana</i>	
15:45–16:00	ICDTDE1009: Systematic Review of Artificial Intelligence Roles for Product Design and Development: From Accelerating Innovation to Amplifying Sustainability <i>Agung Purnomo, Fairuz Iqbal Maulana, Mulyani Karmagatri, Halbana Tarmizi, Bhekti Setyowibowo, Ahmad Syamil</i>	
16:00–16:15	ICDTDE1023: Modeling Smart Furniture Publication Dynamics: A Design-Driven Management Approach Using a Weighted Multi-Model Ensemble	

	<i>Agung Purnomo, Bambang Kartono Kurniawan, Fairuz Iqbal Maulana, Muhamad Ezran Bin Zainal Abdullah, Andi Pramono</i>
16:15–16:30	ICDTDE1040: An Enhanced MILP Model for Efficiently Solving the Reentrant Flexible Job Shop Problem <i>Dr. Bindhu D, Chandramma M, Ravi Kumar V S, Ashwini, Dr. Vijay Budihal, Wei Weng, Cheng Chen</i>
16:30–16:45	ICDTDE891: Algorithm for Generating Signal-Like Interference in a Retransmitter using Autocorrelation Processing <i>The Quan Trong, Nguyen Trong Nhan, Tran Huu Nghi</i>
16:45–17:00	ICDTDE989: Can Artificial Intelligence Enhance Financial Inclusion? Evidence from a Quasi-Natural Experiment of China's New Generation AI Innovation and Development Pilot Zone <i>Zhifei Li, Shuai Chui, Yumo Zou, Bo Shen</i>

17:00–18:30	Virtual Room A Meeting ID: 328 343 663 724 89 Passcode: 3dH67vK6	
Session Chair: <i>Ilias Elmouki</i> Session Code & Title: ICDTDE -TS06: AI and Digital Transformation in Business and Education		
17:00–17:15	ICDTDE579: A Comparative Study of On and Off Reinforcement Techniques in Stock Trading <i>Nikolay Komitov, Veselin Mengov, Zhelyazko Terziyski, Margarita Terziyska, Imane Abouelkheir, Fadwa El Kihal, Ilias Elmouki</i>	
17:15–17:30	ICDTDE790: The Use of Artificial Intelligence Applications in University Education from the Perspective of Early Childhood Program Students at the University of Sharjah <i>Najeh Rajeh Alsalhi, Abdellateef Abdelhafez Alqawasmi, Noura Nasir Al-Karbi</i>	
17:30–17:45	ICDTDE927: Business-IT alignment in cloud computing using process mining and LLMs tools <i>Nikolay Komitov, Margarita Terziyska, Zhelyazko Terziyski, Petya M. Bouacha, H. Sbai</i>	
17:45–18:00	ICDTDE926: Hand Hygiene Practices Among University Students: Insights from Hand Scanner Analysis Across Faculties <i>Shavkat Azimov, Sherzod Nematov, Adkham Makhkamov, Temurbek Daminov, Jamoliddin Razzokov</i>	
18:00–18:15	ICDTDE985: The Impact of Digital Economy on Enterprise Core Technological Innovation fabricated Nano-reinforced Aluminum Alloys <i>Mingyang Li, Chenhuan Kou</i>	
18:15–18:30	ICDTDE1058: Integrating Digital Tools and Business Intelligence to Overcome Data Fragmentation in SMEs Manual Recording Processes <i>Christine N. Mulyo, Meilinda Trisilia</i>	

Virtual Room B

09:30–11:00	Virtual Room B Meeting ID: 338 964 050 750 59 Passcode: W5ca6vq7	
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Session Chair: <i>Sujatha Elumalai</i> Session Code & Title: ICDTDE-TS07: Applied Machine Learning for Intelligent Systems		
09:30–09:45	ICDTDE365: Enhancing Network Performance through Service, Memory, and Access Monitoring <i>Dr.E.Sujatha, Dr.R.G.Sakthivelan, J.Sathiya Jeba Sundar, Aswana Lal</i>	
09:45–10:00	ICDTDE405: Food Prediction and Alert Automation Using Stacking Ensemble <i>Dr.E.Sujatha, Dr.S.Palpandi, K.Gopinath, Preethi Ponnann</i>	
10:00–10:15	ICDTDE406: Enhancing E-Content Development for Engineering Courses with Machine Learning: A Graph Neural Network Approach <i>Dr.E.Sujatha, Padmasheela Keshvan, Dr.D.Naveen Raju, Aswana Lal</i>	
10:15–10:30	ICDTDE286: Product Classification by Weight Using Computer Vision and YOLO11n on Jetson Nano <i>Tran Van Hung, Srikanth H Kamath, Huu Q. Tran</i>	
10:30–10:45	ICDTDE510: DIHA: Sentiment Analysis for Online Reputation Management in Retail Companies <i>Diego E. Galarza-Quezada, José Santisteban</i>	
10:45–11:00		

11:00–12:30	Virtual Room B Meeting ID: 364 142 622 880 23 Passcode: FS2i66i6	
Session Chair: <i>Krishnakumar Sankar & Nejmeddine Layeb</i> Session Code & Title: ICDTDE-TS08: Emerging Technologies in Intelligent Robotics and Rehabilitation		
11:00–11:15	ICDTDE326: Knowledge Base-driven RAG System for Additive Manufacturing Standards <i>Cunqian You, Miao Wei, Xiaobo Chen, Xiaojun Wang</i>	
11:15–11:30	ICDTDE467: Grasp strategies of 3D printed soft robotic actuators: A systematic review of materials, mechanics and mechanisms <i>Krishnakumar Sankar, Mohamed Yusuf Noor Mohamed Khan, Niranjana Arulnambi, Madhavan Murugan</i>	
11:30–11:45	ICDTDE271: Application of negative pressure assisted filling method in contour control of soluble microneedle array <i>Shiming Du, Zhiwei Luo, Xueqiu You</i>	
11:45–12:00	ICDTDE335: Hardness Behaviour of FDM-Printed PLA-CF under Varying Process Parameters <i>Nejmeddine Layeb, Istvan Oldal, László Zsidai</i>	
12:00–12:15	ICDTDE332: Integrating Embedded Control and Machine Vision in a 5-DOF Robotic Arm for Automated Sorting <i>Nguyen Tan Hiep, Huu Q. Tran</i>	
12:15–12:30	ICDTDE863: Portable machine tool design for large-diameter component <i>Antonio Lima da Silva Filho, Evandro Luís Nohara, Blaha Gregory</i>	

12:30–14:00	Virtual Room B Meeting ID: 369 839 463 133 10 Passcode: Qi2HM7tu	
Session Chair: <i>R. Smahi & Vagelis Plevris</i> Session Code & Title: ICDTDE-TS09: Innovations in Sustainable Structural Engineering and Construction		

12:30–12:45	ICDTDE469: Finite element Programming of the Damage Model for Composite Structures <i>R. Smahi</i>
12:45–13:00	ICDTDE530: A comparative analysis of thermal comfort in green building assessment standards across countries: The case of China, the United Kingdom, the United States and Germany <i>Yajing Wang, Olga Vladimirovna Volichenko</i>
13:00–13:15	ICDTDE694: Optimized Soil Stabilization Techniques for Stabilizing Cycle Track in Al Hudayriat Island, Case Study <i>Abdulla A. Sharo, Dalia Darwish, Mohammed Radwan, Mousa Bani</i>
13:15–13:30	ICDTDE479: The Sustainability of the Construction Process and Its Relation to Sustainable Development Goals <i>Hassan Judah, Nour Betoush, Ayah A. Alkhawaldeh, Maria Al-Mdanat</i>
13:30–13:45	ICDTDE1114: Characterization and Anisotropy of 3D Printed Mycelium <i>Minas Karagiannis, Nikos D. Lagaros</i>
13:45–14:00	ICDTDE1011: Comparative Evaluation of SQP, GA, and PSO in Constrained Truss Design Optimization using MATLAB <i>Faizan Masood, Vagelis Plevris</i>

14:00–15:30	Virtual Room B Meeting ID: 322 392 956 961 38 Passcode: cg6aA2br	
Session Chair: <i>Yuri Kubrak & Bai Rafsan-Zahna Mama</i> Session Code & Title: ICDTDE-TS10: Data-Driven Decision Making and AI Applications in Society and Industry		
14:00–14:15	ICDTDE514: Percolation Models of Competition and Monopoly <i>Zhangjingyi Liu, Chengyu Liu, Yangyang Song, Mohd Iskandar Bin Abd Ivan G. Grabar, Olena S. Kilnitska, Yuri O. Kubrak, Maryna I. Yaremova</i>	
14:15–14:30	ICDTDE518: Artificial Intelligence in the Philippine Aquaculture Industry: Applications, Challenges, and Pathways for Inclusive Development <i>Jonald C. Bornales, Aslanie S. Limbona, Johaimen M. Omar, Bai</i>	
14:30–14:45	ICDTDE622: Students Preference on the type of textbook in Higher Education <i>Dr Jashwini Jothishna Narayan</i>	
14:45–15:00	ICDTDE654: Factors Influencing Hybrid Working Model Preference From Gen Z's Perspectives In Vietnam <i>Ngoc Thi Kim PHAM, Dan Thi Thanh NGUYEN</i>	
15:00–15:15	ICDTDE657: Solutions for Developing Technology Startup Incubation In Vietnam <i>Dan Thi Thanh NGUYEN</i>	
15:15–15:30	ICDTDE943: Artificial intelligence in Smart Cities and IoT: Edge and Cloud Symphony of Urban Intelligence <i>Aakash Sunil Chaudhari</i>	

15:30–17:00	Virtual Room B Meeting ID: 351 137 555 385 07 Passcode: gz6Qz6zt	
Session Chair: <i>BEI HAN & BINDHU D</i> Code & Title: ICDTDE-TS11: AI-Driven Insights for Social, Economic, and Organizational Transformation		

15:30–15:45	ICDTDE656: Research and integrated innovative application of virtual simulation smart sports system framework based on AI optimization <i>BEI HAN, JINXIA YANG</i>
15:45–16:00	ICDTDE812: A Hybrid Approach for Forecasting Arable Land in Iraq <i>Marwan Abdul Hameed Ashour, Ahlam Ahmed Juma</i>
16:00–16:15	ICDTDE885: Global Human Resource Management: Navigating talent Across borders <i>Dr. Bindhu D, K.M. Chethana, Dr. Shashidhara D, Thanuja, Dr. Deekshitha Rani, Ashwini, Sowmya</i>
16:15–16:30	ICDTDE902: Women at the helm: Analysing their influence in business strategy and culture <i>Dr. Bindhu D, Chandramma M, Ravi Kumar V S, Ashwini, Dr. Vijay Budihal, Misba, Niveditha N, Princy P F</i>
16:30–16:45	ICDTDE934: The Role of Financial Technology in Enhancing Social and Financial Outcomes in Microfinance <i>Dr Catherine Nirmala J, Dr Bindhu D, Chethanraj, Diya Keerthan Shetty</i>
16:45–17:00	ICDTDE908: Machine Learning for COVID-19 Detection: SVM and Generative AI for Improved Accuracy <i>Tanguturu sp Madhuri, Dr.G.S. Ragahvendra</i>

17:00–18:30	Virtual Room B Meeting ID: 375 448 876 287 74 Passcode: Cj9rC78v	
Session Chair: <i>Nikolay Komitov & Stela Todorova</i> Session Code & Title: ICDTDE-TS12: Data-Driven Modeling and Intelligent Engineering Systems		
17:00–17:15	ICDTDE1001: Real-Time Controlled 3D-Printed Robotic Manipulator for Digital Engineering Training <i>Nikolay Komitov, Veselin Mengov, Zhelyazko Terziyski, Margarita Terziyska, Aleksandar Gonev</i>	
17:15–17:30	ICDTDE1002: Predictive Modeling of a Vacuum-Tube Solar Thermal System Using an LSTM Neural Network for Enhanced Energy Efficiency <i>Zhelyazko Terziyski, Margarita Terziyska, Nikolay Komitov</i>	
17:30–17:45	ICDTDE1003: Thin-Layer Drying Modeling of Red Beet Using Experimental Data, Page Kinetics, and Digital Monitoring <i>Nikolay Komitov, Margarita Terziyska, Zhelyazko Terziyski, Petya Tranenska, Aleksandar Gonev</i>	
17:45–18:00	ICDTDE331: Analysis with Index Matrices Harvesting Energy from Vibration <i>Stela Todorova</i>	
18:00–18:15	ICDTDE1077: Structural credentials of Wire-arc Additive Manufacturing fabricated Nano-reinforced Aluminum Alloys <i>Charalampos Gkountas, Gavriil Dimoulas, Evangelos Efthymiou</i>	
18:15–18:30	ICDTDE1078: Synergistic Wear–Corrosion Interaction in Al–Si/Al ₂ O ₃ Composites: Microstructural, Electrochemical, and Tribological Assessment <i>Farah Ammar Ibrahim, Zeyad D. Kadhim, Mohammed A. Abdulrazzaq</i>	

Virtual Room C

09:30–11:00	Virtual Room C Meeting ID: 397 383 794 318 86 Passcode: mn2A2Vp7	
Session Chair: <i>Lenh Pham & Dr. Buti Obaid Saeed AlFalahi</i> Session Code & Title: ICDTDE-TS13 : Sustainable Systems, Infrastructure, and Digital Innovation		 Microsoft Teams
09:30–09:45	ICDTDE381 : A Hybrid Loss Function Approach with Diverse Backbones for Robust Waste Segmentation <i>Lenh Phan Cong Pham, Nhu Huynh Thi Le, Vinh Phong Vo</i>	
09:45–10:00	ICDTDE408 : A Lightweight Open-Data QGIS Workflow for Walking Accessibility of Heritage Nodes in Dali Dong Village <i>Yihan Wang, Chengyu Liu, Hai Huang</i>	
10:00–10:15	ICDTDE461 : Spatial Variability of Particle Size, Suction, and Water Content in Flood-Prone Atyrau, Kazakhstan <i>Eriko Dewangga, Alfrendo Satyanaga, Sabina Bexultanova, Jong Kim</i>	
10:15–10:30	ICDTDE688 : Securing Supply Chain Management - Enhancing RFID Integrity through Blockchain and IPFS Integration <i>N Nasurudeen Ahamed, Thangavel Murugan</i>	
10:30–10:45	ICDTDE698 : Integrating Life Cycle Assessment and Performance Evaluation of Engineering Cementitious Materials: A Mini-Review Using TOPSIS Analysis <i>Esraa Sami Hijah, Abeer Isam AbuAli, Salem Al-Jaberi</i>	
10:45–11:00	ICDTDE482 : The Principle of Equality and Non-Discrimination in the United Arab Emirates <i>Dr. Buti Obaid Saeed AlFalahi</i>	

11:00–12:30	Virtual Room C Meeting ID: 353 915 667 326 Passcode: PH9Tk2xD	
Session Chair: <i>HaoYun Chi</i> Session Code & Title: ICDTDE-T14 : Digital Twins, Intelligent Systems, and Optimization in Engineering Applications		 Microsoft Teams
11:00–11:15	ICDTDE1015 : Three-Dimensional FLAC3D Modeling and Support System Optimization for Irregular Foundation Pit Excavations <i>Chang Wei Che, Hao-Yun Chi, Chiu Chiang Chung</i>	
11:15–11:30	ICDTDE1016 : Cross-Device Perception of LiDAR-Based Digital Twin Virtual Tourism: A Comparative Study Using a Heritage Fort Environment <i>Ting Lu Chiang, Hao-Yun Chi</i>	
11:30–11:45	ICDTDE1017 : Applying Digital Twin and XR in a Real-World Residential Renovation: A Workflow for Spatial Understanding and On-Site Decision Support <i>Hao-Yun Chi</i>	
11:45–12:00	ICDTDE881 : Multi-objective optimization of quality indicators of Copper alloy sphere surface in ultra-precision turning using MRA technique and biomimetic optimization algorithms <i>Do Manh Tung, Pham Viet Hoang</i>	
12:00–12:15	ICDTDE265 : Design and Implementation of an Intelligent Question-Answering System for Low-Carbon Technologies in Green Buildings	

	<i>Cunqian You, Xiaobo Chen, Xiaojun Wang</i>
12:15–12:30	ICDTDE330: Machine Learning Driven Streamflow Prediction Using Vegetation and Soil Indices for Sustainable Water Management: A Texas Case Study <i>Rishith Kumar Vogeti, Uday Bhanu Prakash Vaddevolu</i>

12:30–14:00	Virtual Room C Meeting ID: 392 159 219 456 28 Passcode: Gu6sj6E9	
Session Chair: <i>Swapna Siddamsetti & Iman Kandeel</i> Code & Title: ICDTDE-TS15: AI, Leadership, and Organizational Innovation in Modern Institutions		
12:30–12:45	ICDTDE296: Implementing Management Accounting in Small and Medium-Sized Enterprises: Opportunities, Challenges, Constraints, and Development Strategies <i>Cong-Du Nguyen, Tran Duy Vu Ngoc Lan, Huu Q. Tran</i>	
12:45–13:00	ICDTDE438: Integrating University Social Responsibility into Institutional Strategy Amidst Higher Education Autonomy in Vietnam <i>Nguyen Thi Van, Huu Q. Tran</i>	
13:00–13:15	ICDTDE343: Unified Pathways: Enhancing Communication and Collaboration for Accelerated Innovation <i>D.Sudheer Reddy, Dr.K.Narendra Kumar</i>	
13:15–13:30	ICDTDE468: AI-based diagnosis and treatment of BPPV: A systematic review <i>Krishnakumar Sankar, Mohamed Yusuf Noor Mohamed Khan, Niranjana Arulnambi, Madhavan Murugan</i>	
13:30–13:45	ICDTDE389: The Effect of Technology Transformational Leadership on Human Resource Employees performance and job satisfaction in Insurance Companies in Palestine <i>Eman I. Issa, Ishaq Ibrahim</i>	
13:45–14:00	ICDTDE409: Helmet and Reflective Vest Recognition System Based on the Improved YOLOv11 Algorithm <i>Dehan Yao, Keqi Huang, Yanwei Wang, Xiaomin Liu, Junlong Zhou, Yikang Li</i>	

14:00–15:30	Virtual Room C Meeting ID: 330 658 678 032 48 Passcode: Zz3LU69e	
Session Chair: <i>Yanwei Wang & Aditya Singh</i> Session Code & Title: ICDTDE-TS16: Digital and Intelligent Methods for Advanced Construction Engineering		
14:00–14:15	ICDTDE316: The Evaluation Climate-Resilient Infrastructure Projects to Encourage Digital and Optimization led Engineering <i>Aditya Singh</i>	
14:15–14:30	ICDTDE1006: The Necessity of Bioengineered and Microbial Materials in the Field of Construction <i>Aditya Singh</i>	
14:30–14:45	ICDTDE320: Research on Comprehensive Error of Digital Image Correlation Methods <i>Keqi Huang, Yikang Li, Junlong Zhou, Zhiyong Wang, Yanwei Wang, Yumeng Bai, Chenglong Ji, Jie Tang</i>	

14:45–15:00	ICDTDE419: Yield-Stress Rheology, Fluid Mechanics and Machine Learning for Predictive Concrete Pumping <i>Yanwei Wang, Keqi Huang, Liguang Lin, Chenglong Ji, Jie Tang, Yikang Li</i>
15:00–15:15	ICDTDE499: An intelligent platform for lifting device selecting and analysis on construction engineering <i>Yikang Li, Yanwei Wang, Keqi Huang, Xiaomin Liu, Junlong Zhou, Liwei Wu, Shudong Hu, Chenglong Ji, Jie Tang, Yumeng Bai, Dehan Yao</i>
15:15–15:30	ICDTDE336: Effect of Precursor Composition and Oxide Ratios on the Performance <i>Keqi Huang, Yun Zhao, Xiaomin Liu, Junlong Zhou, Yanwei Wang, Yunlong Xu</i>

15:30–17:00	Virtual Room C Meeting ID: 326 738 851 670 71 Passcode: zY6YY2a7	
Session Chair: <i>Hebatallah Teamah & Ala Alobeidyeen</i> Code & Title: ICDTDE-TS17: Sustainable Building Materials, Energy Efficiency, and Structural Optimization		
15:30–15:45	ICDTDE360: Experimental Investigation of the Effectiveness of Dynamic Fenestration Insulation in Canadian Climate <i>N. MacDonald, A. Gupta, A. Houle, J. Marston, B. Armstrong, G. Aguilar, H.M. Teamah</i>	
15:45–16:00	ICDTDE380: Metaheuristic Landscape Analysis for Multi-Objective Structural Design in Complex Environments <i>Tarun Madan Kanade</i>	
16:00–16:15	ICDTDE437: Studying on the Basis of Modeling the “Foundation -Wall-Superstructure” System Operating Under Dynamic Influence <i>Buzrukov Zakiryo Sattixodjaevich, Adilov Zafar Ravshanovich, Xatamkulov Bekzod Iskandarbek o’g’li, Dadaxanov Farrux Adxamovich</i>	
16:15–16:30	ICDTDE446: Improvement Of External Insulation Processes Of Residential Buildings <i>Salimova Iroda Nazarbayerova, Saydaxmedova Zahroxon Rustam qizi</i>	
16:30–16:45	ICDTDE470: The Importance Of Using Alternative Energy Sources In Modern Buildings <i>Botir Isakov, Tutiyo Egamberdiyeva, Ne’matullo Xidiraliyev, Kamila Yusupova</i>	
16:45–17:00	ICDTDE434: Valorizing Olive Pomace Lignin as a Sustainable Chemical Admixture for Cement Paste: A Mechanistic and Performance Appraisal <i>Ala Alobeidyeen</i>	

17:00–18:30	Virtual Room C Meeting ID: 331 644 989 824 3 Passcode: wP28An38	
Session Chair: <i>Iurii Kaliukh & Giuseppe Ciaburro</i> Session Code & Title: ICDTDE-TS18: Construction 4.0: Digital Twins, Diagnostics, and Risk Intelligence		
17:00–17:15	ICDTDE411: The Impossibility of Complete Restoration of Buildings Damaged by Warfare <i>I. Kaliukh, Y. Slyusarenko, M. Marienkov, V. Dunin, I. Yakovenko, Y. Berchun</i>	

17:15–17:30	ICDTDE412: Geometric Digital Twin of a Partially Destroyed High-Rise Building <i>I. Kaliukh, O. Tytarenko, V. Tytarenko, M. Yakovenko, V. Vapnichna, Y. Berchun</i>
17:30–17:45	ICDTDE413: Application of Construction 4.0 Technologies to Detect a Hidden Vibration Source in a High-Rise Residential Building <i>I. Kaliukh, V. Dunin, V. Siedin, V. Zahilskyi, V. Kovba, Y. Berchun</i>
17:45–18:00	ICDTDE439: Sound Absorption Performance of a Layered Recycled Metamaterial with Machine Learning-Based Acoustic Simulation <i>Giuseppe Ciaburro, Virginia Puyana-Romero</i>
18:00–18:15	ICDTDE448: Durability of aerodrome horizontal markings: a literature-based framework linking AI, lifecycle optimization, and sustainability <i>Blaha Gregory Correia dos Santos Goussain</i>
18:15–18:30	ICDTDE862: Rule-based expert system for risk analysis and mitigation in construction projects <i>Álvaro Vieira Marques, Marina Laís Rosa, Maria Clara Lopes Prudente Ribeiro, Roque Antônio de Moura, Blaha Gregory Correia dos Santos Goussain, Marco Rogério da Silva Richetto</i>

Virtual Room D

09:30–11:00	Virtual Room D Meeting ID: 313 991 245 113 20 Passcode: 7xj2HK6K	
Session Chair: <i>Zahra Shokooh Ghazani & Tianwen Zhao</i> Session Code & Title: ICDTDE-TS19: AI-Driven Robotics, Sensing, and Autonomous Inspection		
09:30–09:45	ICDTDE240: Quantile Regression Modeling of Unit Gompertz–Poisson Distributions for Digital Optimization of Urban Water Leakage Reduction <i>Zahra Shokooh Ghazani</i>	
09:45–10:00	ICDTDE272: Analysis of Fluid Dynamics and Gas Flow Characteristics of Compressed Gas Ejection System for UAV <i>Xianwei Huang, Yu Ji, Song Li, Jiaojiao Han, Tong Yan</i>	
10:00–10:15	ICDTDE273: Cross-embodied reinforcement learning control method for quadruped robots on complex terrain <i>Hongyi Hao</i>	
10:15–10:30	ICDTDE378: Design and implementation of an autonomous four-wheel drive Mecanum wheel robot system for infrared thermal anomaly inspection of refinery pipelines <i>Jianyong Zhang, Yinghao Wang, Anyue Qi</i>	
10:30–10:45	ICDTDE379: Optimization of autonomous grasping strategy for warehouse robots based on vision-language large model <i>Xiaoyue Zhang, Yunfei Li, Fanqi Meng, Keyu Zhang</i>	
10:45–11:00	ICDTDE682: EfficientNet Small Target Detection and Tracking in UAV Aerial Images <i>Weicong Ma, Zeyi Liu, Jinzhou Zheng</i>	

11:00–12:30	Virtual Room D Meeting ID: 393 429 899 938 2 Passcode: Nm9C3VV2	
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Session Chair: <i>CunQian You & Yan Chiew Wong</i> Session Code & Title: ICDTDE-TS20: AI-Driven Sensing and Detection		
11:00–11:15	ICDTDE329: Reconstructing RAG Systems for Green Buildings and Additive Manufacturing from Economic and Sustainable Development Perspectives: A GPTCache-Enabled Semantic Caching Approach <i>Cunqian You, Tianbian Zhou, Xiaobo Chen, Miao Wei, Xiaojun Wang</i>	
11:15–11:30	ICDTDE285: Unsupervised Anomaly Detection Using Segmentation and Object Localization for Real-Time Surveillance Applications <i>Shistiyah Mohamad Halid, Yan Chiew Wong, Faiz Arith, Ser Lee Loh, Haoyu Zhang</i>	
11:30–11:45	ICDTDE287: Efficient CNN-Based Maize Leaf Disease Detection for Embedded Agricultural Applications <i>Jun Yi Thoo, Yan Chiew Wong, Ser Lee Loh, Elfadil Mohammed</i>	
11:45–12:00	ICDTDE292: Real-Time Zero-Shot Object Grounding on Edge Devices with Vision-Language Models <i>Nurul Syaheera binti Ahmad Nazran, Yan Chiew Wong, Syafeeza Ahmad Radzi, T. Joseph Sahaya Anand</i>	
12:00–12:15	ICDTDE277: Strength improvement of poured concrete in bridges in high-cold areas based on integration of vibration mixing and non-destructive testing <i>Yi Shen, Nurul Izzatul Lydia Binti Zaba, Nor Faiza Binti Abd Rahman, Kai Gao, Zhao Li</i>	
12:15–12:30	ICDTDE375: Global trade flow prediction based on spatiotemporal graph neural network (ST-GNN) <i>Guoqing Chen, Tianwen Zhao, Yuxiao Long, Qinghuan Guan, Xinting Hu</i>	

12:30–14:00	Virtual Room D Meeting ID: 393 429 899 938 2 Passcode: Nm9C3VV2	
Session Chair: <i>Huu Q. Tran & Lenh Pham</i> Code & Title: ICDTDE-TS21: Energy Systems, Electronics, and Smart Signal Processing		
12:30–12:45	ICDTDE306: Survey On Quantum Light and Its Applications <i>Phan Tuan Anh, Huu Q. Tran</i>	
12:45–13:00	ICDTDE867: Enhanced MPPT Algorithm for Photovoltaic Systems Based on Fuzzy Logic Control <i>Tran Minh Hong, Huu Q. Tran</i>	
13:00–13:15	ICDTDE877: Performance–Energy Efficiency Tradeoff Analysis of Distributed Multi-RIS Systems under Co-Channel Interference <i>Huu Q. Tran, Phan Tran Truong Dien, Ly Nhan Hau</i>	
13:15–13:30	ICDTDE449: Early Detection of Parkinson's Disease using a Multi-modal Transformer: A Synergistic Fusion of Audio Spectrograms and Brain MRI <i>Thang Hoang Nguyen Pham, Vinh Phong Vo, Nhu Thi Huynh Le, Nhan Trung Tran, Lenh Phan Cong Pham</i>	
13:30–13:45	ICDTDE376: Cross-border e-commerce logistics demand forecasting based on XGBoost and GRU integration model <i>Guoqing Chen, Tianwen Zhao, Yan Wang, Yutong Chi, Jiajia Tong</i>	
13:45–14:00	ICDTDE377: Study on the optimal path of emergency material distribution in 5G network environment for delivery vehicles and UAV <i>Guoqing Chen, Tianwen Zhao, Xinwei Li, Shangdong Li, Yicheng Li</i>	

14:00–15:30	Virtual Room D Meeting ID: 392 360 832 216 85 Passcode: Ve9nZ6uz	
Session Chair: <i>Srikanth H Kamath & Amani Majeed</i> Session Code & Title: ICDTDE-TS22: Intelligent Sensing, Networks, and Smart Monitoring Systems		
14:00–14:15	ICDTDE279: Compact and Smart: An IoT-Integrated Smartwatch for Gas Hazard Detection and Safety Alerts <i>Huu Q. Tran, Lai Thanh Thai, Srikanth H Kamath</i>	
14:15–14:30	ICDTDE280: A High-Performance Gradient Descent MPPT Algorithm for Fast and Stable Power Extraction in PV Systems <i>Thanh-Dong Ngo, Huu Q. Tran, Srikanth H Kamath</i>	
14:30–14:45	ICDTDE308: Using Thermoelectric Generators to Power Pipeline Monitoring Devices from Waste Heat <i>Keqi Huang, Yikang Li, Junlong Zhou, Zhiyong Wang, Yanwei Wang, Yumeng Amani J. Majeed, Elaf J. Majeed</i>	
14:45–15:00	ICDTDE872: Multi-Scenario Simulation and Performance Analysis of Intelligent Transportation Systems Based on VANET Using SUMO and OMNeT++ <i>Rafid M. Khaleefah, Elaf J. Majeed, Amani J. Majeed, Iman G.</i>	
15:00–15:15	ICDTDE873: Numerical Study on Enhancing Convection Heat Transfer in Back Step Cavity <i>Iman G. Mohammed, Ali K. Hadi, Amani J. Majeed, Elaf J. Majeed, Rafid M. Khaleefah</i>	
15:15–15:30	ICDTDE882: An Explainable Hybrid Machine Learning Approach for Early Diabetes Prediction: Comprehensive Feature Engineering and Multi-Model Analysis <i>Mohammed Salem, Mohammed Al-Hubaishi, Mohanad Alayed</i>	

15:30–17:00	Virtual Room D Meeting ID: 345 322 572 794 91 Passcode: Xg9gT9JQ	
Session Chair: <i>Agus Sujatmoko & Tutiyo Egamberdiyeva</i> Session Code & Title: ICDTDE-TS23: Sustainable Construction Materials, Energy Efficiency, and Engineering Innovation		
15:30–15:45	ICDTDE625: Integration of Decision-Making Factors and Strategy Formulation in Offshore Platform Brownfield Projects for Oil and Gas Business Sustainability <i>Agus Sujatmoko, Nur Syahroni, Haryo Dwito Armono</i>	
15:45–16:00	ICDTDE640: Long-Term Performance of Ladle Slag/Fly Ash Geopolymer Mortars Under Ambient Curing <i>Omar Najm, Hilal El-Hassan, Amr El-Dieb</i>	
16:00–16:15	ICDTDE397: Research of Energy Consumers and Consumption of Fuel and Energy Resources in the Construction of Small-Story Residential Buildings in the Conditions of Uzbekistan <i>Xamza Yusupov, Tutiyo Egamberdiyeva</i>	
16:15–16:30	ICDTDE398: Developing Competency Clusters for Future Engineers: A New Educational Taxonomy Approach	

	<i>Alimov Azam Anvarovich, Bakhodirjon Sabirovich Nuridinov, Savrieva Ikbol Bakhodirovna, Turgunov Abdurashid Abdumannobovich, Sayfullayeva Dilafruz Ahmadovna</i>
16:30–16:45	ICDTDE400: Studying the Properties of Gas Concrete Barrier Walls in Hot Climatic Conditions and Calculating Their Indicators <i>Zafar Sattorov Muradovich, Dilbar Rustamova Baxodirovna</i>
16:45–17:00	ICDTDE315: The Effect of Superplasticizers on the Strength and Elastic Properties of B30 Concrete <i>Erboyev Shavkat, Kasimov Odil, Shodmanov Anarkul, Khakimov Khojakbar, Barnoyeva Zilola, Botirov Bektosh</i>

17:00–18:30	Virtual Room D Meeting ID: 375 978 648 277 42 Passcode: ZB7fj6U3	
Session Chair: <i>Sachin Ghalme & Ahmed K. Al-Kamal</i> Session Code & Title: ICDTDE-TS24: Advanced Concrete & Composite Materials		
17:00–17:15	ICDTDE238: Investigating Tribological Performance of Si3N4-hBN Ceramic Composite using BHARAT Approach <i>Mohammad Hayat, Sandeep Thorat, Sachin Ghalme</i>	
17:15–17:30	ICDTDE425: Experimental Study on the Compressive Strength and Ultrasonic Pulse Velocity of Seaweed-Modified Geopolymer Concrete <i>Nehemia Yulius Wijaya, Andy Prabowo, Jack Widjajakusuma</i>	
17:30–17:45	ICDTDE983: Improved Technology For Producing Fine-Grained Concrete Using Marble Waste: A Comprehensive Study <i>Askarov Bakhtiyor Askarovich, Sobirova Mukaddas Khamidullaeva</i>	
17:45–18:00	ICDTDE458: Sustainable Magnetic Biochar–Alginate Beads for Adsorption and Photocatalytic Degradation of Methylene Blue in Textile Wastewater <i>Hala Naseer Abdelkareem, Ibrahim Abdulwahhab Atiyah, Mohammed Ali Abdulrehman, Ahmed K. Al-Kamal</i>	
18:00–18:15	ICDTDE459: Rice Husk Ash-Based Sustainable Foamed Geopolymer Concrete with Eco-Friendly Foaming Agents for Improved Mechanical and Thermal Insulation <i>Mohammed Ali Abdulrehman, Kadhim K. Resan, Ali M. Flayyih, Ahmed K. Al-Kamal, Ahmed Subhi Abbas</i>	
18:15–18:30	ICDTDE460: Comparative Study on the Impact Resistance and Mechanical Properties of Slag-Based Geopolymer Concrete Modified with Dual Types of SBS Polymer Reinforcements Using Micro- and Macro-Sized Granules <i>Ahmed K. Al-Kamal, Yasir Khalil Ibrahim, Rasha Ahmed Alsamurie, Mohammed Ali Abdulrehman, Aous Abdulhussain Moyet</i>	

Day 2 – Friday, 19 December 2025 (Online)

Parallel Technical Sessions – Overview

Room / Track	09:30–11:00	11:00–12:30	12:30–14:00	14:00–15:30	15:30–17:00	17:00–18:30
Virtual Room A	[ICDTDE-TS25]	[ICDTDE-TS26]	[ICDTDE-TS27]	[ICDTDE-TS28]	[ICDTDE-TS29]	[ICDTDE-TS30]
Virtual Room B	[ICDTDE-TS31]	[ICDTDE-TS32]	[ICDTDE-TS33]	[ICDTDE-TS34]	[ICDTDE-TS35]	[ICDTDE-TS36]
Virtual Room C	[ICDTDE-TS37]	[ICDTDE-TS38]	[ICDTDE-TS39]	[ICDTDE-TS40]	[ICDTDE-TS41]	[ICDTDE-TS42]
Virtual Room D	[ICDTDE-TS43]	[ICDTDE-TS44]	[ICDTDE-TS45]	[ICDTDE-TS46]	[ICDTDE-TS47]	[ICDTDE-TS48]

Virtual Room A

09:30–11:00	Virtual Room A Meeting ID: 341 222 459 961 31 Passcode: fM6ZP6ct				
Session Chair: <i>Christoforos Dimopoulos & Themistoklis Tsalkatidis</i> Session Code & Title: ICDTDE-TS25: Structural Resistance to Seismic and Accidental Actions					 Microsoft Teams
09:30–09:45	ICDTDE473: Development of a Nonlinear Analytical SDOF Model for Progressive Collapse Analysis Verified through Finite Element Analysis and Experimental Data <i>Christoforos Dimopoulos</i>				
09:45–10:00	ICDTDE474: Seismic performance of EC8-based designed tall steel buildings with braced core and outriggers <i>Prasanna Lansakara, Christoforos Dimopoulos, Theodore Karavasilis</i>				
10:00–10:15	ICDTDE475: Low fatigue resistance prediction of steel braces with square hollow steel sections <i>Christoforos Dimopoulos, Prasanna Lansakara, Theodore Karavasilis</i>				
10:15–10:30	ICDTDE478: Numerical Investigation of Reinforced Concrete Beams Strengthened with Basalt Fiber Reinforced Polymer <i>Themistoklis Tsalkatidis, Asadullah Taraki</i>				
10:30–10:45	ICDTDE572: Mechanical Performance of Concrete Incorporating Waste Glass as a Supplementary Material <i>Mousa Bani Baker, Altayeb Qasem, Read Abende, Zaydoun Abu Salem, Takialddin Al Smadi, Abdulla Sharo</i>				
10:45–11:00	ICDTDE575: Investigating the Impact of Smart Automation on Operational Efficiency and Workforce Safety in Saudi Manufacturing Sector <i>Ahmed Al-Ali, Rami Alawneh, Mousa Bani Baker</i>				

11:00–12:30	Virtual Room A Meeting ID: 357 733 053 338 18 Passcode: gR7Yv9ci				
Session Chair: <i>Karima Boussaha & Sangheethaa S</i> Session Code & Title: ICDTDE-TS26: AI-Enhanced Learning and Predictive Analytics					 Microsoft Teams

11:00–11:15	ICDTDE300: Traceroo: An Innovative Educational Game for Teaching Primary School Children English Writing Skills <i>Karima Boussaha, Samia Drissi</i>
11:15–11:30	ICDTDE304: Generative IA for Cybersecurity Learning in Higher Education: A literature review <i>Salsabil Boukhari, Karima Boussaha, MakhlofDerdour</i>
11:30–11:45	ICDTDE305: Uncharted Models for Dropout Prediction: A Comparative Benchmark in Online Learning <i>Houssam Ahmed Amin Bahi, Karima Boussaha, Zakaria Laboudi</i>
11:45–12:00	ICDTDE314: Unveiling the Latest Trends in Recommender Systems for MOOCs: A Review <i>Hadjer Mosbah, Karima Boussaha, Samia Drissi</i>
12:00–12:15	ICDTDE303: EduSpeakAI: An AI-Powered Real-Time Speech Evaluation and Coaching System for Elocution and Public Speaking <i>Gowri Arun Menon, Sangheetha Sukumaran, Sadhiya Saleem</i>
12:15–12:30	ICDTDE317: Bank Customer Churn Analysis: Leveraging Power BI, Python & SQL Workbench for Predictive Insights <i>Chandrakala L, Monish L, Manjula M, Mahendra MK, Sameia Suha, Virika Olivia Soans</i>

12:30–14:00	Virtual Room A Meeting ID: 364 033 826 393 2 Passcode: rY7uV3C7	
Session Chair: <i>Mohammad Alhassan & Mousa Bani Baker</i> Session Code & Title: ICDTDE-TS27: AI, Sustainability, and Intelligent Systems in the Built Environment		
11:00–11:15	ICDTDE532: On the Sustainability, Life Cycle Assessment, and Artificial Intelligence Integrations in Construction and Built-Environment <i>Mohammad A. Alhassan, Layla K. Amaireh, Nour A. Betoush</i>	
11:15–11:30	ICDTDE646: Integration of 3D Printing and Sustainability Concepts in High School Education: Preparation of Future Engineers <i>Eman Zaitoun, Sherin Alamassi, Muzzafar Shaukat, Mohammad Alhassan</i>	
11:30–11:45	ICDTDE647: Integration of Artificial Intelligence in Sustainability Project-Based Learning: Multidisciplinary University Students Perspectives <i>Eman Zaitoun, Azhar Shater, Ahmed Abuibaid, Mohammad Alhassan</i>	
11:45–12:00	ICDTDE571: Intelligent Energy Management Approaches for PV System Performance Using MPPT, Internet of Things, and Neural Networks <i>Mousa Bani Baker, Takialddin Al Smadi</i>	
12:00–12:15	ICDTDE576: GIS-based Multi-Criteria Decision Analysis for Retention Pond Site Selection in Flood-Prone Sites in Amman-Jordan <i>Mohammad Almawas1, Mousa Bani Baker</i>	
12:15–12:30	ICDTDE574: Seismic Performance of Cold-Formed Steel in Moment-Resisting Frames <i>Hussein S. Osman, Mohamed H. Serror, Mousa Bani Baker, Elsayed Fathallah</i>	

14:00–15:30	Virtual Room A Meeting ID: 329 188 331 518 44 Passcode: mU2q2io2	
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Session Chair: <i>Artem Ochirov & Yuli Chashechkin</i> Session Code & Title: ICDTDE-TS28 : Analytical and Multiscale Modeling in Fluid Dynamics and Heat Transfer		
14:00–14:15	ICDTDE553 : Analytical Asymptotic Theory of 2D Flows in Compressible Heterogeneous Viscous Fluids: Ligaments and Waves <i>A.A. Ochirov</i>	
14:15–14:30	ICDTDE554 : On the Initial Conditions in the Problem of the Numerical Modeling of Fluid Periodic Perturbations Propagating <i>A.A. Ochirov, A.S. Chernov</i>	
14:30–14:45	ICDTDE555 : Asymptotic theory for obtaining regular and singular solutions to annular periodic fluid surface perturbations <i>Keqi Huang, Yikang Li, Junlong Zhou, Zhiyong Wang, Yanwei Wang, Yumeng A.A. Ochirov, U.O. Trifonova</i>	
14:45–15:00	ICDTDE556 : A.H. Naifeh's ideas and methods impact for the theory of flows of heterogeneous fluid <i>Yuli D. Chashechkin</i>	
15:00–15:15	ICDTDE783 : Integrating Physics-Based and Data-Driven Modeling: A New Paradigm for Multiscale and Multiphysics Problems <i>Zhisong Ou</i>	
15:15–15:30	ICDTDE979 : Attenuating Heat Transfer through Residential Roof Assemblies: Evaluation of Bulk Insulation based on 6-Dimensional Building Information Modelling <i>Rabah Ismail, Hashem Al-Mattarneh, Christopher Tan Earn Soon, Syed Ahmad Farhan, Marwa Al-Jamal</i>	

15:30–17:00	Virtual Room A Meeting ID: 311 850 779 160 1 Passcode: x2aY2BA6	
Session Chair: <i>Z. Doomah & Rahul Jain</i> Session Code & Title: ICDTDE-TS29 : Smart Systems and Data-Driven Decision Frameworks for Sustainable Engineering		
15:30–15:45	ICDTDE704 : Factors affecting the adoption of Innovative Asset Management Technologies for infrastructure systems <i>Z. Doomah</i>	
15:45–16:00	ICDTDE758 : Adoption of AI-driven Project Quality Management Systems in the construction industry in Small Island Developing States from a TAM-TOE perspective <i>Y. Boojhawon, Z. Doomah, S. K. Nunkoo</i>	
16:00–16:15	ICDTDE857 : Innovative Tools for Cost Management in the construction industry: A systematic review <i>Z. Doomah, Y. Moonshiram, A. Seeboo, S. K. Nunkoo, S. T. Chutoori</i>	
16:15–16:30	ICDTDE855 : AI-Driven FinTech for Sustainable and Inclusive Green Finance <i>Dhaval Kumar Pambhar, Rahul Jain, Harsh Nagar</i>	
16:30–16:45	ICDTDE768 : AI-Driven Innovation in Sustainable Buildings: Large-Scale Sensor Data Framework <i>Attila Balogh, József Kovács</i>	
16:45–17:00	ICDTDE785 : Integrated RAMS–OEE Framework for Reliability Growth in High-Temperature Polymer Shrink <i>Soheil Yousefi</i>	

17:00–18:30	Virtual Room A Meeting ID: 325 315 241 733 11 Passcode: jr3Um9jB	
Session Chair: <i>Ayah Alkhawaldeh & Rabah Ismail</i> Session Code & Title: ICDTDE-TS30: AI and Digital Technologies for Built Environment and Sustainable Systems		
17:00–17:15	ICDTDE804: Impact of AI-Generated Content on Social Media: A Case Study Across Domains <i>Sangeeta Bhattacharya, Debashis Das, Chandrima Sinha Roy, Manisha Das</i>	
17:15–17:30	ICDTDE847: Examining Forest Disturbance Using Artificial Intelligence and Remote Sensing Techniques <i>Nawras N. Shatnawi, Aslam A. Al-Omari</i>	
17:30–17:45	ICDTDE481: AI-Driven Digital Twins for Energy Efficiency and Lifecycle Optimization in Smart Buildings <i>Nour Betoush, Ayah A. Alkhawaldeh, Hassan Judah</i>	
17:45–18:00	ICDTDE980: Transforming the Construction Industry: Evolution of Building Information Modelling Towards <i>Hashem Al-Mattarneh, Rabah Ismail, Mei-Zhen Lim, Syed Ahmad Farhan, Marwa Al Jamal</i>	
18:00–18:15	ICDTDE982: Closing the Loop: Circularity in Modular Construction Research <i>Syed Ahmad Farhan, Rabah Ismail, Hashem Al-Mattarneh, Nadzhratul Husna, Marwa Al-Jamal</i>	
18:15–18:30	ICDTDE976: Mechanism Analysis of Digital Infrastructure in Promoting Digital Finance Development <i>Shuai Cui, Zihao Wang, Qing Han, Xuwei Zhang, Jiayi Tian, Bo Shen</i>	

Virtual Room B

09:30–11:00	Virtual Room B Meeting ID: 391 102 918 588 10 Passcode: Bt7UG2Wy	
Session Mohanad Alayeddi & Mohammad Kamil Session Code & Title: ICDTDE-TS31: AI-Enhanced Decision Intelligence and Engineering Optimization		
09:30–09:45	ICDTDE883: Advanced Feature Engineering and Machine Learning for Hybrid Wi-Fi/BLE Indoor Localization: A Comprehensive Study <i>Abdulkader Al-Gailani, Mohammed Al-Hubaishi, Mohanad Alayeddi</i>	
09:45–10:00	ICDTDE382: Hybrid Semantic-Web Architecture for Context-Aware Agricultural Decision Support <i>Mohammad Kamil, Muhammad Hussain Mughal, Duygu Cakir</i>	
10:00–10:15	ICDTDE492: Optimization Of The Content Of Personnel Training In Vocational Educational Institutions <i>Qalanov Hasan Yakubovich, Nuridinov Bakhodirjon Sabirovich, Ashurova Sanobar Yuldashevna, Alimov Azam Anvarovich</i>	
10:15–10:30	ICDTDE948: Neurodidactic And Cognitive Bases Of Competency Clustering In Engineering Education: Mapping Trajectories And Interference Zones <i>Alimov Azam Anvarovich, Bakhriddinova Nasiba Muradovna, Savrieva Ikbol Bakhodirovna, Hafizov Akmal Rustamovich, Miralieva Aziza Kayumovna</i>	
10:30–10:45	ICDTDE683: Industrial Enterprise Reconstruction Systematics	

	<i>Ganiev Karim Barovich, Salimova Iroda Nazarbayevna, Khodjaeva Shakhnoza Nazarbayevna, Ganieva Feruza Karimovna</i>
10:45–11:00	ICDTDE648: New design and technological solutions for ensuring the technological reliability of the installation of prefabricated slabs in civil buildings <i>Matgoziyev Xusan Melibayevich, Kumakov Jahongir Xamzayevich, Ibraximov G'ayrat Abdumuminovich, Ibraximov Shuxrat Abdumuminovich</i>

11:00–12:30	Virtual Room B Meeting ID: 311 754 344 733 94 Passcode: Ex9jt6NN	
Session Chair: <i>Bektosh Botirov & Albena Doicheva</i> Session Code & Title: ICDTDE-TS32: Computational Methods in Structural Mechanics and Safety Analysis		
11:00–11:15	ICDTDE384: Steel Fiber-Reinforced Concrete and Features of Calculating the Strength and Crack Width of SFRC Structures <i>Erboyev Shavkat, Kasimov Odil, Shodmanov Anarkul, Khakimov Khojakbar, Barnoyeva Zilola, Botirov Bektosh</i>	
11:15–11:30	ICDTDE407: Shear Force in a Beam-Column Connection from a Linearly Distributed Load Occupying Various Possible Positions on a Cantilever Beam <i>Albena Doicheva</i>	
11:30–11:45	ICDTDE1004: Shear Force in a Beam-Column Connection from a Linearly Distributed Load Occupying Various Possible Positions on a Cantilever Beam - Asymmetric Cross Section <i>Albena Doicheva</i>	
11:45–12:00	ICDTDE1005: Reflection from the Type of Load on the Beam and Other Factors Significantly Influencing the Magnitude of the Horizontal Shear Force <i>Albena Doicheva</i>	
12:00–12:15	ICDTDE597: Spectral Methods in Nonlinear Problems Of Heat And Mass Transfer <i>Yaroslav Pyanylo, Roman Kushnir, Oksana Vovk</i>	
12:15–12:30	ICDTDE428: From Smoke to Fire: Improving Early Detection with Pre-trained CNNs <i>Robert Lepădatu, Simona Moldovanu, Felicia Anisoara Damian, Luminita Moraru</i>	

12:30–14:00	Virtual Room B Meeting ID: 326 262 934 401 87 Passcode: ZW7pG9mg	
Session Chair: <i>Debela N Gurmu & Mohammad Jahidul Islam</i> Session Code & Title: ICDTDE-TS33: Computational Materials Engineering and AI-Enabled Autonomous Robotics		
12:30–12:45	ICDTDE531: Investigating the mechanical properties of 3D foam subjected to uniaxial tensile load <i>Debela N. Gurmu, Krzysztof Wacławski, Hirpa G Lemu</i>	
12:45–13:00	ICDTDE587: DFT-Based Study of Pressure-Induced Modification of Eco-Friendly Perovskite Material of K ₂ InNaBr ₆ for Optoelectronic Applications	

	<i>Mohammad Jahidul Islam, Md Sharif Ahmed</i>
13:00–13:15	ICDTDE570: Leveraging Agentic AI for Enhancing Digital Twins in Civil Engineering <i>Dr. Jay Nanavati</i>
13:15–13:30	ICDTDE643: Study on fabricating and controlling humanoid robot integrated with medical expert system applying voice recognition technique <i>Duong Xuan Bien, Pham Van Toan, Nguyen Van Trung, Nguyen Ba Khanh, Mai Ngoc Anh, Dao Van</i>
13:30–13:45	ICDTDE644: Kinematics analysis and control of drone tracking test system based on image processing technique <i>Nguyen Van Nam, Duong Xuan Bien, Le Tuan Tu, Nguyen Xuan Thuy, Vuong Anh Tuan, Hoang Phan Binh, Tran Xuan Trung, Le Duc Anh, Le Duc Minh, Nguyen Quang Dat</i>
13:45–14:00	ICDTDE671: Design and experimental fabrication of a mobile robot model for automatic fire extinguishing <i>Mai Ngoc Anh, Duong Xuan Bien, Hoang Hai Long, Hoang Van Hoc, Nguyen Van Minh, Hoang Thi Dieu</i>

14:00–15:30	Virtual Room B Meeting ID: 339 605 046 874 22 Passcode: FT3DC24M	
Session Chair: <i>I. Sree Brahmanandam Potula & Duong Bien</i> Session Code & Title: ICDTDE-TS34: AI-Driven Modeling, Optimization, and Decision Systems in Engineering and Society		
14:00–14:15	ICDTDE616: Early Adoption of Two-Wheeler Electric Vehicles (EV) in India: A Data-Driven Strategy for Market Segmentation <i>I. Sundara Siva Rao, Seetayya Narthu, Gunisetty Krishna Sai Jyoteesh, P. S. Brahmanandam</i>	
14:15–14:30	ICDTDE617: Predicting Household Financial Vulnerability during COVID-19 Using Gradient Boosted Trees <i>Dr Saragadam Sridhar, Dr I S Siva Rao, Mr. Kiran Kumar Velala, Dr. P. S. Brahmanandam</i>	
14:30–14:45	ICDTDE618: Enhanced Deep Learning Framework for Robust and Universal Fruit Detection and Classification in Diverse Agricultural Settings <i>Jalampelli Thirupathi, N. Malarvizhi, I. Sundara Siva Rao, P. S. Brahmanandam</i>	
14:45–15:00	ICDTDE619: Semantic Condensation through Self-Attention Mechanisms in Transformer Architectures for Automatic Text Summarization <i>Dr T.Srinivasarao, Dr. Sasanko Sekhar Gantayat, Ch. Kodanda Ramu, Sunil Chandolu, Teja Karri, Dr. P. S. Brahmanandam</i>	
15:00–15:15	ICDTDE678: Turntable mechanism designing and manufacturing in automatic assembly system Lock Shuntjoint <i>Pham Van Toan, Nguyen Van Trung, Duong Xuan Bien</i>	
15:15–15:30	ICDTDE679: Study on the topology optimization design: the case of the load-bearing hanger optimization design <i>Nguyen Van Trung, Pham Van Toan, Duong Xuan Bien</i>	

15:30–17:00	Virtual Room B
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	Meeting ID: 397 668 745 852 54 Passcode: og3WV6nh	
Session Chair: <i>T. Srinivasarao & S. Kannadhasan</i> Session Code & Title: ICDTDE-TS35: Data-Driven Modeling, Machine Learning, and Optimization in Engineering and Decision Systems		
15:30–15:45	ICDTDE680: Establishing a model to predict the stress concentration coefficient of welds using industrial <i>Le Van Tan, Dao Van Duong, Duong Xuan Bien, Vu Minh Hoang, Truong Khanh Nghia, Hoang Thi</i>	
15:45–16:00	ICDTDE710: Machine Learning Algorithms for the Segmentation of Brain Tissues- Bibliometric Analysis <i>S.N Kumar, Nor Asilah Wati Abdul Hamid, Dafik, R. Sunder, Siva Shakar S, Arun S, S. Kannadhasan</i>	
16:00–16:15	ICDTDE809: Multivariate Statistical Analysis of Readiness for Music and Yoga Interventions in Stress Management through a Pilot Study <i>Dona Sebastian, S.N Kumar, S. Kannadhasan</i>	
16:15–16:30	ICDTDE1031: Design and Optimization of a Multiband Patch Antenna for Mobile Communication Devices <i>S. Kannadhasan, Nor Asilah Wati Abdul Hamid, Dafik, R. Sunder, Arun S, S N Kumar</i>	
16:30–16:45	ICDTDE638: A Novel Algorithm for Process-Specific Marginal Abatement Cost Curves: Resolving Technology Conflicts in Multi-Step Manufacturing <i>Laureana Mari Baylon, Bernadette T. Magadia, Ramon Christian P. Eusebio, Dominic C.Y. Foo, Maria Victoria Migo-Sumagang</i>	
16:45–17:00	ICDTDE639: Milestone-Gated, Donor-Governed Crowdfunding: Security Properties and the Price of Safety <i>Aryavardhan Modi, Anisha Ray, Dr Perepi Rajarajeswari</i>	

17:00–18:30	Virtual Room B Meeting ID: 337 892 517 516 93 Passcode: Ku6Cy3Ty	
Session Chair: <i>Hala Abdulsalam & Omar Fitian Rashid</i> Session Code & Title: ICDTDE-TS36: AI-Driven Prediction and Detection Methods in Applied Sciences		
17:00–17:15	ICDTDE403: Automated Seismic Detection Algorithm applied for Iraq's Mesopotamian Seismological Network <i>Loay E. George, Hala A. Jasim, Sinan Sameer Mahmood Al-Dabbagh, Enas Kh. Hassan, Najah A. Abd</i>	
17:15–17:30	ICDTDE313: Efficient Intrusion Detection with RNA Encoding and Random Forest Classifier on CIDDs-001 Dataset <i>Omar F. Rashid, Humam Al-Shahwani</i>	
17:30–17:45	ICDTDE561: Enhancement of Electrical and Viscosity Properties of PVDF Composites Doped with Surface-Modified Nano (KNN+BaTiO3) for Biomedical Actuators <i>Hussain Ameer Aljawad, Hatam Kareem Kadhom, Ahmed Hameed Reja</i>	
17:45–18:00	ICDTDE598: Formulating Location and Allocation Problems for Smart Lockers in Last-mile Delivery <i>M. Seifbarghy, S. Kasap</i>	
18:00–18:15	ICDTDE658: Comparative Analysis of Regression and ANN Models for Predicting Tensile Strength of Jordanian Limestone	

	<i>Abdulla A. Sharo, Mohammad O. Taamneh, Samer R. Rababah, Saja F. Alkhateeb, Mousa Bani Baker</i>
18:15–18:30	ICDTDE672: A Machine Learning Approaches to Binaural Beat Detection <i>Mohammed Hussein Ali</i>

Virtual Room C

09:30–11:00	Virtual Room C Meeting ID: 376 310 069 830 37 Passcode: vz6qC6Ns	
Session Chair: <i>Viet-Hung Truong, Quang-Viet Vu</i> Session Code & Title: ICDTDE-TS37: Optimization and Machine Learning in Structural Analysis		
09:30–09:45	ICDTDE684: Bi-objective Optimization of Dynamic Construction Site Layout Planning for Highway Projects Using NSGA-II <i>Thi-Thanh Nguyen, Viet-Hung Truong</i>	
09:45–10:00	ICDTDE691: Multi-objective optimization of semi-rigid steel frames using nonlinear inelastic analysis <i>Quoc-Anh Vu, Viet-Hung Truong</i>	
10:00–10:15	ICDTDE693: Machine learning-based classification and regression of semi-rigid steel frames using nonlinear inelastic analysis <i>Hieu - Nghia Hoang, Quốc – Anh Vũ</i>	
10:15–10:30	ICDTDE250: Applications of Physics-Informed Neural Networks for Static Analysis of Plates <i>Nguyen Pham Dinh, George Papazafeiropoulos, Dai-Nhan Le, Quang-Viet Vu</i>	
10:30–10:45	ICDTDE894: Development of Graph Neural Network for Predicting Stress Field of Particulate Nanocomposite considering Interphase Region <i>Tien-Thinh Le, Quang-Viet Vu</i>	
10:45–11:00	ICDTDE905: Multi-objective optimization of steel cellular beams using genetic algorithms <i>Tran-Hieu Nguyen</i>	

11:00–12:30	Virtual Room C Meeting ID: 370 076 514 031 36 Passcode: pd6qH6aG	
Session Chair: <i>Blaha Gregory Correia dos Santos Goussain & Ilias Elmouki</i> Session Code & Title: ICDTDE-TS38: Data-Driven Optimization, AI, and Digital Monitoring in Modern Engineering Systems		
11:00–11:15	ICDTDE896: Data-driven Lean Six Sigma optimization for sustainable robotic welding in agricultural machinery manufacturing <i>Igor da Silva, Blaha Gregory Correia dos Santos Goussain</i>	
11:15–11:30	ICDTDE897: Lean Six Sigma based optimization of barley waste management: mapping, root causes, and structured solutions for continuous improvement <i>Gabriela Silva Guimarães, Blaha Gregory Correia dos Santos Goussain</i>	
11:30–11:45	ICDTDE895: Lean Six Sigma driven process optimization for sustainable efficiency in small-scale toy manufacturing <i>Lucas Nyakas de Oliveira, Blaha Gregory Correia dos Santos Goussain</i>	
11:45–12:00	ICDTDE509: Investigating the Combination of Reinforcement Learning with Liquid Neural Networks	

	<i>Kaouthar Oubbad, Ilias Elmouki, Abdelilah Jraifi, Mohammed Madiafi</i>
12:00–12:15	ICDTDE795: A Scalable and Adaptive Big Data Pipeline for Real-Time Anomaly Detection in Distributed Systems <i>Mouhim Sanaa, Maryem Ait El Hadj, HANANE CHLIAH</i>
12:15–12:30	ICDTDE664: Analysis of Subsidence Characteristics in Northern China's Mining Engineering Areas with SBAS-InSAR: A Digital Monitoring Approach Based on Satellite Remote Sensing <i>Pengfei Ma, Zhi Yang, Sihang Zhang, Hui Chen, Zezhou Zhao</i>

12:30–14:00	Virtual Room C Meeting ID: 361 393 678 884 05 Passcode: Kq7RU6Xc	
Session Chair: <i>Ting Dong & Ruobin Wang</i> Code & Title: ICDTDE-TS39: Data-Driven Optimization Methods in Engineering and Urban Systems		
12:30–12:45	ICDTDE559: Analysis of High-Frequency Vibration and Noise in Permanent Magnet Linear Synchronous Motor <i>Ting Dong, Jiabin Wang, Bo Zhang, Guilin Zhao</i>	
12:45–13:00	ICDTDE562: Inductance Characteristics Analysis of Grain-Oriented Silicon Steel Sheets Permanent Magnet <i>Guangheng Pan, Ting Dong, Bo Zhang, Guilin Zhao</i>	
13:00–13:15	ICDTDE662: Multi-Objective Optimization and Active Control of Vibration and Noise in High-Speed Reciprocating Permanent Magnet Linear Motors <i>Shuai Zhu, Ting Dong, Bo Zhang</i>	
13:15–13:30	ICDTDE742: Diagnostic Study on the Matching Degree of Supply and Demand for Community-Based Elderly Care Facilities in Megacity <i>Yushan Su, Xuanhui Wang, Dingyue Zhang, Ruobin Wang</i>	
13:30–13:45	ICDTDE743: Big Data-Driven Structural Equation Modeling for Interactive Effects Analysis of Health and Longevity Factors in Chinese Elderly <i>Dingyue Zhang, Yushan Su, Xuanhui Wang, Ruobin Wang</i>	
13:45–14:00	ICDTDE744: Base on Reinforcement Learning for Adaptive Operator Scheduling: The Animated Oat Optimization Algorithm and Its Application to Engineering Optimization Problems <i>Xu Cheng, Jing-Wen Zhang, Ruo-Bin Wang</i>	

14:00–15:30	Virtual Room C Meeting ID: 318 313 462 760 83 Passcode: BH7MW9KH	
Session Chair: <i>Alexandru-Petre Tache & Amaliyah Unair</i> Session Code & Title: ICDTDE-TS40: Structural Graph Metrics and Smart Digital Governance Solutions		
14:00–14:15	ICDTDE705: Qualitative study of the Misbalance Deg Index <i>Alexandru-Petre Tache</i>	
14:15–14:30	ICDTDE707: Diminished Euler Sombor Index <i>Maria-Rozica Tache, Alexandru-Petre Tache</i>	
14:30–14:45	ICDTDE754: Extremal Graphs for the Inverse Degree Index <i>Iulius Stroe, Maria-Rozica Tache, Alexandru-Petre Tache</i>	
14:45–15:00	ICDTDE787: Digital Transformation through Next-Generation Archiving: Empirical Insights from DOF	

	<i>Amaliyah, Azzahra Rahma Syabistari, Erindah Dimisyqiyani, Rizky Amalia Sinulingga, Gagah Gayuh Aji</i>
15:00–15:15	ICDTDE784: SIPENDA Intelligent E-Governance: A Web-Based Archival Optimization Model for Retired <i>Amaliyah, Syafira Nur Arofah, Erindah Dimisyqiyani, Rizky Amalia Sinulingga, Gagah Gayuh Aji</i>
15:15–15:30	ICDTDE925: Digital Transformation and Customer Satisfaction: A CIS Framework for Urban Water Utilities <i>Amaliyah, Farhan Dwi Maulana, Erindah Dimisyqiyani, Rizky Amalia Sinulingga, Gagah Gayuh Aji</i>

15:30–17:00	Virtual Room C Meeting ID: 368 647 642 684 72 Passcode: Te2FS6CH	
Session Chair: <i>Abel C. H. Chen & Mario Luis Chew Hernández</i> Session Code & Title: ICDTDE-TS41: Emerging Digital Technologies and Optimization in Energy, Automation, and Smart Systems		
15:30–15:45	ICDTDE294: Comparison of Credential Management Systems Based on the Standards of IEEE, ETSI, and YD/T 3957-2021 <i>Abel C. H. Chen</i>	
15:45–16:00	ICDTDE274: Design of high-energy cathode materials for lithium-ion batteries based on first principles <i>Lei Zhu, Qianru Zhu, Huang He</i>	
16:00–16:15	ICDTDE275: International Hydrogen Energy Trade Flow Forecast and Transaction Optimization Model Based on 5G and Blockchain <i>Zherong Zhang, Zixu Ding, Tian Su, Shuaixiang Xi, Xintong Bai, Tianwen Zhao</i>	
16:15–16:30	ICDTDE276: Research on the Application of Blockchain Smart Contracts Driven by Generative Large Language Models in Industrial Automation <i>Wenlin Liu, Zhenzhou Zhou, Zikai Zhao</i>	
16:30–16:45	ICDTDE328: A Value-Focused Thinking approach for teacher-course assignment and school timetabling under personnel scarcity <i>M. L. Chew-Hernández, G. J. Espinosa-Martínez, C. Mercado-Zuñiga</i>	
16:45–17:00	ICDTDE1027: A Hybrid Systematic Review and Delphi Study on the Internet of Medical Things in Entrepreneurship: Roles, Challenges, and Future Directions <i>Calista Kalleya, Agung Purnomo</i>	

17:00–18:30	Virtual Room C Meeting ID: 325 083 029 148 57 Passcode: tC9YN7w8	
Session Chair: <i>Prince Kelvin Owusu & Eleni Vrochidou</i> Session Code & Title: ICDTDE-TS42: Applied AI and IoT for Real-World Monitoring and Optimization		
17:00–17:15	ICDTDE849: Machine Learning-Based Employee Productivity and Retention Analytics for Small and Medium Enterprises (SMEs) in Ghana <i>Prince K. Owusu, Gibson A. Owusu, Moses Aggor, Suleman Zakaria, Martins L. Nuertey, Cecil S.</i>	
17:15–17:30	ICDTDE850: Implementing an Internet of Things (IoT)-Based Street and Traffic Light Monitoring System in the Cities in Ghana	

	<i>Gibson A. Owusu, Prince K. Owusu, Moses Aggor, Gaberiel F.A. Amponsah, Martins L. Nuerter, Suleman Zakaria, Cecil S. Mensah</i>
17:30–17:45	ICDTDE851: An IoT-Enabled Water Quality Monitoring System for Communities Affected by Illegal Mining (Galamsey) Activities in Ghana <i>Cecil S. Mensah, Prince K. Owusu, Gibson A. Owusu, Moses Aggor, Martins L. Nuerter, Suleman Zakaria, Gaberiel F.A. Amponsah</i>
17:45–18:00	ICDTDE661: Deep Learning of Sequential Data with Transformers: A Dual Implementation in Computational Biology and Medical Imaging <i>Konstantinos Kapenis, Stergios Papadimitriou, Eleni Vrochidou, George A. Papakostas</i>
18:00–18:15	ICDTDE951: A Hybrid Approach Based on Machine Learning and Multicriteria Decision Analysis for Budget-Aware Chronic Kidney Disease Analytics <i>O. Abdellaoui, M. Naimi</i>
18:15–18:30	ICDTDE1007: Temporal Refinement and ML-Driven Uncertainty Assessment of GEBCO Bathymetry in the Nigerian EEZ <i>Desmond Rowland Eteh, Ifunanya Osondu, Anslem O Otutu, Ebingiye Nelvin Agbozu, Tarinabo William, Ayebawanaemi G Winston</i>

Virtual Room D

09:30–11:00	Virtual Room D Meeting ID: 399 554 094 873 22 Passcode: zH6ki2M2	
Session Chair: <i>Azam Alimov & Ricardo Fitas</i> Session Code & Title: ICDTDE-TS43: AI and Modeling for Sustainable Manufacturing and Materials		
09:30–09:45	ICDTDE965: Preventing The Obsolescence Of Residential Buildings Through The Integration Of Photovoltaic Solar Modules <i>Khotamov Asadulla Toshtemirovich, Urinov Murodjon Zayni ugli, Abdurakhmonov Abdubosit</i>	
09:45–10:00	ICDTDE566: A user-interactive vision-based Robotic arm for real-time object detection <i>Krishnakumar Sankar, Niranjana Arulnambi, Anjali Ganeshbabu Sheeba, Mohamed Yusuf Noor Mohamed Khan, Gayathri Krishna Manju Rajeev</i>	
10:00–10:15	ICDTDE1039: Cellular Manufacturing's Impact on JIT and Lean Outcomes: A Literature-Driven Analysis <i>Wei Weng, Meimei Zheng</i>	
10:15–10:30	ICDTDE813: GC–MS Of Biodiesel (Fame) Production From Blended Feedstock Oils Using Potassium <i>Ofor, Helen Obianuju, Okosun Senator Endurance, Nweke Gospel Ndudirim</i>	
10:30–10:45	ICDTDE309: Stochastic Modeling of Corrugated Board Compression Using Random and Brownian Node Perturbations <i>Ricardo Fitas</i>	
10:45–11:00	ICDTDE845: Generative AI-Driven Corrugated Board Design Recommendations on the Pareto Front <i>Gurpratap Singh, Ricardo Fitas</i>	

11:00–12:30	Virtual Room D Meeting ID: 384 756 746 371 23 Passcode: Pa9Mk9im	
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Session Chair: <i>Nor Amirah Busul Aklan & Salmawaty Arif</i> Session Code & Title: ICDTDE-TS44: Computational Modeling and Mathematical Methods for Complex Systems		
11:00–11:15	ICDTDE366: Controlling Localized Potential to Govern Soliton Dynamics in Optical Communication Systems <i>Anis Sulaikha Samiun, Nor Amirah Busul Aklan, Bakhram Umarov</i>	
11:15–11:30	ICDTDE293: Identifying Systemic Super-Spreaders Using Triangulated Maximally Filtered Graphs <i>Hafizah Bahaludin</i>	
11:30–11:45	ICDTDE909: Predictive Modeling of Student Academic Performance Using Continuous Assessment Data: A Case Study for Advanced Mathematical Methods Course <i>Hafizah Bahaludin, Nor Amirah Mohd Busul Aklan</i>	
11:45–12:00	ICDTDE767: Acehnese Traditional Ornament Simulations in Polar Coordinate and Fractal <i>Salmawaty Arif, Syarifah Meurah Yuni, Aulia Nur Fadina, Hayatun Ulfa</i>	
12:00–12:15	ICDTDE890: Application of the Alternating Direction Implicit (ADI) Method to the Full Potential Equation <i>Humaira Salsabila, Salmawaty Arif, Rahma Zuhra</i>	
12:15–12:30	ICDTDE889: Implementation of the Approximate Factorization 2 (AF2) Method in Solving Heat Equation <i>Adinda Pramita, Salmawaty Arif, Rahma Zuhra</i>	

12:30–14:00	Virtual Room D Meeting ID: 325 806 408 812 58 Passcode: 3Hy7FW6p	
Session Chair: <i>Ala Al-areqi & Neyara Radwan & Tamara Abdulmunim Abduljabbar</i> Code & Title: ICDTDE-TS45: AI for Cybersecurity and Intelligent Systems		
12:30–12:45	ICDTDE226: Towards Automated Summarization of Cybersecurity Reports Using Fine-Tuned Large Language Models <i>Jaybie Perigo, Ala Abdulhakim Al-areqi, Farnaz Farid, Farhad Ahamed</i>	
12:45–13:00	ICDTDE746: A Privacy-Preserving and Scalable Blockchain Framework for Intelligent Recommender Systems <i>Tamara Abdulmunim Abduljabbar</i>	
13:00–13:15	ICDTDE692: Enhancing Intrusion Detection in IoT Networks with Extra Dimension Optimization Algorithm and Spatial-Temporal Graph Convolutional Networks for Smart Cities <i>Nandita Sengupta, Ramya Chinnasamy, Malliga Subramanian, Ramkumar M.P</i>	
13:15–13:30	ICDTDE355: Optimizing Demand Forecasting in Supply Chains through Machine Learning: Practical Implications <i>Rouhi Faisal</i>	
13:30–13:45	ICDTDE818: AI-Driven Software Engineering for Immersive Metaverse Experiences: Challenges and Opportunities <i>Yazan Alahmed, Dareen Anwar Awwad, Abdulla A. Sharo, Muath AlShaikh, Yanal Alahmad</i>	
13:45–14:00	ICDTDE371: Hussein Search Algorithm Mathematical Model and its application on Inverted Indexes for Efficient Information Retrieval <i>Omar H. Abu El Haija, Arwa Zabian</i>	

14:00–15:30	Virtual Room D Meeting ID: 324 194 731 354 90 Passcode: ZF6S83Pq	
Session Chair: <i>Mohammed Ali Abdulrehman & Mohamed Naimi</i> Session Code & Title: ICDTDE-TS46: Advanced Optimization and Decision-Making in Engineering and Manufacturing		
14:00–14:15	ICDTDE753: Optimization of Burning Temperature and Cooling Rate of Rice Husk Ash for Enhanced Pozzolanic Reactivity and Concrete Performance <i>Ali Yousif Awad, Mohammed Ali Abdulrehman</i>	
14:15–14:30	ICDTDE880: Research on Measuring Technique of the Quality Indexes for Diffraction Surface on White Light Interferometer Equipment in Ultra-Precision Turning <i>Bui Kim Hoa, Duong Xuan Bien, Do Manh Tung, Nguyen Kim Hung, Ngo Viet Hung, Hoang Nghia Duc</i>	
14:30–14:45	ICDTDE1021: The effect of correlations among random member properties on structural design: Investigation based on Robust Design Optimization <i>Dimos C. Charmpis</i>	
14:45–15:00	ICDTDE879: Machining Process Design and Quality Evaluation of Freeform Surface in Ultra-Precision Turning Based on Diffsys Software <i>Nguyen Kim Hung, Do Manh Tung, Chu Anh My, Duong Xuan Bien, Bui Kim Hoa, Ngo Viet Hung, Hoang Nghia Duc</i>	
15:00–15:15	ICDTDE703: Integrating ELECTRE and Goal Programming for Enhanced Decision-Making in ERP System Selection <i>O. Chaanoune, M. Naimi</i>	
15:15–15:30	ICDTDE887: Adaptive Crow Search Algorithm with Dynamic Neighborhood Structures for Flow Shop Scheduling Problem <i>I. Mouangui, S. El Moumen, M. Naimi</i>	

15:30–17:00	Virtual Room D Meeting ID: 322 866 304 560 6 Passcode: z5Qw7Nd6	
Session Chair: <i>Arman Mohammad Nakib</i> Session Code & Title: ICDTDE-TS47: Intelligent Vision and Predictive Analytics for Advanced Engineering		
15:30–15:45	ICDTDE370: High-Performance Failure Prediction in Industrial Engines: A Random Forest Approach with Advanced Feature Engineering and SHAP Interpretability <i>Mst Jannatul Kobra, Xianchun Zhou, Md Owahedur Rahman, Arman Mohammad Nakib</i>	
15:45–16:00	ICDTDE681: Industrial appearance defect detection method based on knowledge graph and visual perception <i>Shuyang Li, Yuxuan Yang, Xinyu Li, Jianghan Yu</i>	
16:00–16:15	ICDTDE433: Revealing the Visual Cues: How YOLO-Nano Learns to Detect Objects in Adverse Weather <i>Vinh Phong Vo, Nhu Huynh Thi Le, Lenh Phan Cong Pham, Tri Dinh Vo</i>	
16:15–16:30	ICDTDE676: Robust measurement of silicon carbide epitaxial layer thickness based on two-beam interferometry and multi-angle fusion <i>Shangdong Li, Lianyu Wu, Yicheng Li, Longji Tang, Ziqi Xiong, Guoqing Chen, Tianwen Zhao</i>	

16:30–16:45	ICDTDE653: A Comparative Analysis of Change Point Detection Methods for the Length-Biased Weibull-Rayleigh Distribution in the Hydrological Time Series of Chiang Mai, Thailand <i>Tanachot Chaito, Manad Khamkong</i>
16:45–17:00	ICDTDE969: Modeling and Analysis of Balance Problems in Magnetic-Adhesion Mobile Robots for Reverse-Slope Surface Cleaning <i>Duong Xuan Bien, Nguyen The Hung, Phung Tien Dat</i>

17:00–18:30	Virtual Room D Meeting ID: 313 208 224 532 29 Passcode: HM2pZ294	
Session Chair: <i>Aidana Sailike</i> Session Code & Title: ICDTDE-TS48: AI & Optimization for Environmental and Societal Systems		
17:00–17:15	ICDTDE488: Development and Validation of a Scale for Employee-Perceived AI Sycophancy in China <i>Aidana Sailikea, Xiaoping Tongb</i>	
17:15–17:30	ICDTDE755: Synthesis of two-level control in constructing the optimal trajectory of the UAV using a predictive model <i>Nikolay Baranov, Sergey Kabanov, Nadezhda Tarazanova</i>	
17:30–17:45	ICDTDE853: Sustainable Tourism: A Multi-Objective Optimization Framework for Juneau and Beyond <i>Zeen Song, Xiaohan Chen</i>	
17:45–18:00	ICDTDE935: Integrating Machine Learning and GIS Techniques for Optimal Siting of Utility-Scale Solar Photovoltaic Systems in Maricopa County <i>Prince Chukwuemeka, Endurance Onyenweuwa Nwadoziokwu, Becky P. Bamiekumo, Meremu Dogiye Amos, Omabuwa O Mene-Ejegi, Charles U. Akajiaku, Okes Imoni</i>	
18:00–18:15	ICDTDE994: A Machine Learning Supported AHP–GIS Framework for Flood Risk Mapping in the Central Niger Delta <i>Charles Ugochukwu Akajiaku, Ifunanya Osondu, Anslem O Otutu, Meremu Dogiye Amos, Tarinabo William, Omabuwa O Mene-Ejegi, Ebingiye Nelvin Agbozu</i>	
18:15–18:30	ICDTDE756: Enhancing Hyperparameters for Solar Energy Forecasting in Kirkuk, Iraq: Grid and Cuckoo Searches Techniques <i>Ahmad Hussain AlBayati, Azheen Hussain AlKaki</i>	

Day 3 – Saturday, 20 December 2025 (Online)

Parallel Technical Sessions – Overview

Room / Track	09:30–11:00	11:00–12:30	12:30–14:00	14:00–15:30	15:30–17:00	17:00–18:30
Virtual Room A	[ICDTDE-TS49]	[ICDTDE-TS50]	[ICDTDE-TS51]	[ICDTDE-TS52]	[ICDTDE-TS53]	[ICDTDE-TS54]
Virtual Room B	[ICDTDE-TS55]	[ICDTDE-TS56]	[ICDTDE-TS57]	[ICDTDE-TS58]	[ICDTDE-TS59]	[ICDTDE-TS60]

Virtual Room C	[ICDTDE-TS61]	[ICDTDE-TS62]	[ICDTDE-TS63]	[ICDTDE-TS64]	[ICDTDE-TS65]	[ICDTDE-TS66]
Virtual Room D	[ICDTDE-TS67]	[ICDTDE-TS68]	[ICDTDE-TS69]	[ICDTDE-TS70]	[ICDTDE-TS71]	[ICDTDE-TS72]

Virtual Room A

09:30–11:00	Virtual Room A Meeting ID: 340 567 667 344 96 Passcode: M3s3um2C
Session Chair: <i>Mohammed Ali Mohammed & M PRADEEP</i> Session Code & Title: ICDTDE-TS49: Computational Intelligence and Advanced Modeling	
09:30–09:45	ICDTDE507: Improvement of Academic Paper Title Generation using Modify Yake Algorithm <i>Ali Ahmed Ali, Mohammed Ali Mohammed</i>
09:45–10:00	ICDTDE794: Energy Consumption Analysis of Quantum Algorithms Implemented in Embedded Devices <i>Doaa Subhi, Lina Mohammed Nori, Yousif Hosain</i>
10:00–10:15	ICDTDE792: An Approximate Method for Analyzing Self-Excited Oscillations Using Elements of Bifurcation Theory <i>Volodymyr Verbytskyi, Oleksandr Kravchenko, Valerii Khrebet, Ruslana Kolodnytska</i>
10:15–10:30	ICDTDE893: Multilayered conceptual modeling for the design, implementation and optimization of information security systems <i>Ivan Gaidarski</i>
10:30–10:45	ICDTDE892: Scientific Exploration of Extra-Terrestrial planets and Analysis using Quantum Computing <i>Zarif Bin Akhtar, Sauda Musharrat</i>
10:45–11:00	ICDTDE526: Automated Detection and Classification of Plant Leaf Diseases Using Image Processing <i>M PRADEEP, S HANUMANTHA RAO</i>

11:00–12:30	Virtual Room A Meeting ID: 345 613 041 869 Passcode: fo3Mg96c
Session Chair: <i>Gabriel Silva Atencio</i> Session Code & Title: ICDTDE-TS50: Intelligent Computing and Optimization for Emerging Digital Systems	
11:00–11:15	ICDTDE1050: Quantum Microprocessor Architectures: Scalability and Error Correction Benchmark <i>Gabriel Silva Atencio</i>
11:15–11:30	ICDTDE1051: Comparative analysis of quantum technology and classical computing: advantages and drawbacks <i>Gabriel Silva Atencio</i>
11:30–11:45	ICDTDE1122: 5G-enabled digital twins: A governance framework for equitable smart urban transformation <i>Gabriel Silva Atencio</i>
11:45–12:00	ICDTDE1110: What neural networks may be used to analyze trend lines for management decision-making?

	<i>W. Okulicz-Kozaryn</i>
12:00–12:15	ICDTDE963: Modeling and Optimization of Emergency Frequency Support from Distributed Energy Resources During High-Impact Low-Probability Event <i>I. Brazhnyk, Yu. Vyshnevskaya</i>
12:15–12:30	

12:30–14:00	Virtual Room A Meeting ID: 339 008 703 250 50 Passcode: bc7jB7zs	
	Session Chair: <i>Stelios K. Georgantzinis</i> Session Code & Title: ICDTDE-TS51: Digital Technologies and Data-Driven Environmental & Economic Analysis	
12:30–12:45	ICDTDE709: Digital Microwave Characterization of Ice-Accreted Power Transmission Conductors for SAR-Based Monitoring <i>Sihang Zhang, Zhi Yang, Junhui Li, Pengfei Ma</i>	
12:45–13:00	ICDTDE977: Digital economy, market size and urban-rural income gap <i>Zihao Wang, Qing Han, Xuwei Zhang, Shuai Cui, Donghan Meng</i>	
13:00–13:15	ICDTDE1033: Success Factors of IoT-Enabled Digital Tools in Entrepreneurship: A Systematic Review Integrated with Delphi Validation <i>Imeliana Jopi, Shandy Aulia Jaya, Hizkya Raka Priyandana, Agung</i>	
13:15–13:30	ICDTDE1117: Implementation of a Prediction Model Based on Naïve Bayes and Bag of Words (BoW) in Assessing ESG as a Supporting Factor for the Green Economy <i>Fernando, Kevin Deniswara</i>	
13:30–13:45	ICDTDE686: Machine vision-based intelligent surface garbage cleaning ship system <i>Chengyang Gu, Han Hai, Haochen Sun, Ruiqi Wang, Xiaoming Huang</i>	
13:45–14:00	ICDTDE960: Human-Centred AI for Optimizing Participatory approaches for experts in Sustainable Development <i>Sandhya Gunness, Manta D. Nowbuth, Yashwaree Baguant, Atanasi Daradounis</i>	

14:00–15:30	Virtual Room A Meeting ID: 334 717 723 256 66 Passcode: FH94xw26	
	Session Chair: <i>Stelios K. Georgantzinis & Grigorios Kostopoulos</i> Session Code & Title: ICDTDE-TS52: Advanced Additive Manufacturing and Digital Twins	
14:00–14:15	ICDTDE387: 4D Printing of complex ABS Structures <i>Grigorios Kostopoulos, Konstantinos Dimitras, Stelios K. Georgantzinis</i>	
14:15–14:30	ICDTDE388: Shape Recovery Behavior of PETG Structures in 4D Printing <i>Grigorios Kostopoulos, Aristidis Pothitos, Stelios K. Georgantzinis</i>	
14:30–14:45	ICDTDE549: Improved Dimensional Accuracy in 3D Printed Components of PLA <i>George Dimitrakopoulos, Grigoris Kostopoulos, Stelios Georgantzinis</i>	
14:45–15:00	ICDTDE220: 6D Printing: Exploiting Full Programmability of Smart Structures through Additive Manufacturing <i>Stelios K. Georgantzinis</i>	

15:00–15:15	ICDTDE551: Tolerance Analysis and Assembly Performance Enhancement in 3D Printed Mechanical Components <i>George Dimitrakopoulos, Grigoris Kostopoulos, Stelios Georgantzinis</i>
15:15–15:30	ICDTDE394: Digital Twin for Fused Filament Fabrication (FFF) <i>Eleni Papadopoulou, Stelios K. Georgantzinis</i>

15:30–17:00	Virtual Room A Meeting ID: 365 829 158 082 95 Passcode: 573VH7xQ	
Session Chair: <i>Georgios E. Stavroulakis & Nikos D. Lagaros</i> Session Code & Title: ICDTDE-TS53: Optimization and Design of Structural and Energy Systems		 Microsoft Teams
15:30–15:45	ICDTDE868: Optimization of Onshore wind turbine foundation. - Analysis of the method and advantages <i>Emmanouil Vougioukas, Athanasios Stamos, Charikleia Pappa, Nikos D. Lagaros</i>	
15:45–16:00	ICDTDE869: Comparison of Onshore & Offshore Wind Turbine Foundations – A Comprehensive Review <i>Emmanouil Vougioukas, Athanasios Stamos, Charikleia Pappa, Nikos D. Lagaros</i>	
16:00–16:15	ICDTDE870: Literature Overview of Offshore Floating Wind Turbine Foundations <i>Emmanouil Vougioukas, Athanasios Stamos, Charikleia Pappa, Nikos D. Lagaros</i>	
16:15–16:30	ICDTDE811: Vibration Control Using Piezoelectric Synchronized Switch Damping Techniques <i>Maria-Styliani Daraki, Konstantinos Marakakis, Georgios E. Stavroulakis</i>	
16:30–16:45	ICDTDE875: Optimization Design of a Ming-Style Round-Backed Armchair Using Bamboo-Integrated Material with the Finite Element Method <i>Jinglong Li, Qisen Zhu, Zhuoran Li</i>	
16:45–17:00	ICDTDE876: The Impact of Corporate Governance on Investment Decisions: International Experiences and Implications for Vietnamese Industrial Enterprises <i>Pham Mai Chi, Ngo Thu Giang, Nguyen Thu Ha</i>	

17:00–18:30	Virtual Room A Meeting ID: 368 789 231 114 16 Passcode: W9Gg2uT6	
Session Chair: <i>Prajwalasimha S N & Arull Roselet Meryline Selvaraj</i> Session Code & Title: ICDTDE –TS54: AI, Image Processing, and Fuzzy Modeling in Intelligent Systems		 Microsoft Teams
17:00–17:15	ICDTDE318: Fortification of Iris Images: A Combined Approach using Pixel Transposition and Modified Logistic Map based Substitution <i>Manjula M, Monish L, Shahedhadeennisa S, Chandrakala L, Akshatha Preeth P, Keerthan V</i>	
17:15–17:30	ICDTDE319: Basketball Pose Coach: An AI-Powered Real-Time System for Shooting Form Analysis and Biomechanical Feedback <i>Mahendra MK, Prajwalasimha S N, Monish L, Manjula M, Shridevi Sali, Sameia Suha</i>	

17:30–17:45	ICDTDE933: Cocoa Bean Classification Using Machine Learning Based on Spectroradiometer Measurements in the LAB Color Space <i>Kacoutchy Jean Ayikpa, Diarra Mamadou, Abou Bakary Ballo</i>
17:45–18:00	ICDTDE1134: A Study of Fully Soft Fuzzy Assignment Model involving Soft More General Class of Linear Octagonal Fuzzy Numbers <i>Arul Roselet Meryline S, Amalore Arumica, Benazir Obilia X A</i>
18:00–18:15	ICDTDE1138: A Study of Fully Fuzzy Transportation Model involving More General Class of Linear Octagonal Fuzzy Numbers <i>Amalore Arumica, Arul Roselet Meryline S, Benazir Obilia X A</i>
18:15–18:30	ICDTDE1139: A Study of Fuzzy Correlation Coefficient in a Soft Fuzzy Environment <i>Vidya M, Arul Roselet Meryline, Felbin C Kennedy</i>

Virtual Room B

09:30–11:00	Virtual Room B Meeting ID: 381 409 738 225 20 Passcode: wg2if6ei	
Session Chair: <i>Manta Devi Nowbuth</i> Session Code & Title: ICDTDE-TS55: Project Management, Sustainability, and Structural Optimization in Built Environments		
09:30–09:45	ICDTDE936: Challenges and Opportunities of adopting the Agile Methodology in the banking sector for enhancing project management efficiency <i>Hurpaul S., Nowbuth M. D., Doomah Z., Baguant Y., Seeboo A.</i>	
09:45–10:00	ICDTDE937: Project Intelligence: When AI is the project Manager in IT and communication services in Mauritius <i>Chundy P., Nowbuth M. D., Seeboo A., Doomah Z., Baguant Y.</i>	
10:00–10:15	ICDTDE938: Enhancing safety and productivity in the constructions sector through effective project management practices <i>Cabri J. A. T. A., Nowbuth M. D., Baguant Y., Seeboo A., Doomah Z.</i>	
10:15–10:30	ICDTDE911: Structural Reusability of Recycled Aggregate for Sustainable Concrete Development in Small Island Developing States: A Case Study of Mauritius <i>Joshan Sembhoo, Asish Seeboo, Y. Baguant, Z. Doomah, M. Nowbutg</i>	
10:30–10:45	ICDTDE912: Simulation-Based Optimization of Load-Bearing Structures in Ground-Floor Housing for Efficiency and Sustainability: Insights from Small Island Developing States (SIDS) <i>Pauline Jean- Noël Nicolas, Asish Seeboo, Yashwaree Baguant, Zaheer Doomah, Manta nowbuth</i>	
10:45–11:00	ICDTDE913: Towards Resilient Rooftops in Small Island Developing States (SIDS): Assessing Waterproofing Membranes and Alternatives in Mauritius <i>Pheerunggee Muhammad Arfan, Asish Seeboo, Yashwaree Baguant, Zaheer Doomah, Manta Nowbuth</i>	
11:00–12:30	Virtual Room B Meeting ID: 333 809 726 986 76 Passcode: Xr9z5Kh9	

Session Chair: <i>Stelios K. Georgantzinou, Eleni Papadopoulou</i> Session Code & Title: ICDTDE-TS56: Advanced Structural Design and Additive Manufacturing in Aerospace and Construction		
11:00–11:15	ICDTDE297: Aerodynamic Design and Structural Evaluation of a TPMS-Core, Composite-Reinforced Nose Cone <i>Nikolas S. Nikolaou, Panteleimon Bakalis, Antonis Fatsis, Stelios K. Georgantzinou</i>	
11:15–11:30	ICDTDE299: Integrated Aerodynamic and Structural Design with Experimental Evaluation of a Solid-Propellant Model Rocket <i>Nikolas S. Nikolaou, Panteleimon Bakalis, Antonis Fatsis, Stelios K. Georgantzinou</i>	
11:30–11:45	ICDTDE393: Smart Mapping and Decision Tools for Localized Material Reuse in Circular Construction <i>Eleni Papadopoulou, Stelios K. Georgantzinou</i>	
11:45–12:00	ICDTDE650: Experimental Investigation of Bending Behavior in FDM-Printed ASA Beams <i>Konstantinos Dimitras, Grigorios Kostopoulos, Stelios K. Georgantzinou</i>	
12:00–12:15	ICDTDE651: Influence of 3D Printing Parameters on the Tensile Performance of ASA Specimens <i>Konstantinos Dimitras, Grigorios Kostopoulos, Stelios K. Georgantzinou</i>	
12:15–12:30	ICDTDE1034: Neural Network Constitutive Modeling of Soil for Resilient and Sustainable Design <i>Stefanos Voulgaris, Nikos D Lagaros</i>	

12:30–14:00	Virtual Room B Meeting ID: 334 160 380 936 46 Passcode: Wk9TH2Qu	
Session Chair: <i>Ilias Elmouki</i> Session Code & Title: ICDTDE-TS57: Reinforcement Optimization for Intelligent Management, Automation and Detection Across Industries		
12:30–12:45	ICDTDE539: An End-to-End Hybrid Framework for Customer Churn Management: From Predictive Models to Explainability and Generative Retention Strategies <i>Meryem Houssam, Abdelilah Jraifi, Ilias Elmouki</i>	
12:45–13:00	ICDTDE552: Sustainable IoT Sensors and Efficient Measurements in Aircraft Maintenance <i>Nouhaila Chouarfa, Abdelilah Jraifi, Ilias Elmouki</i>	
13:00–13:15	ICDTDE581: A Data-Driven Reinforcement and Adaptation Strategy for Aerospace MRO Systems <i>Kaoutar Ajmili, Abdelilah Jraifi, Ilias Elmouki</i>	
13:15–13:30	ICDTDE369: A Cloud Container Workflow Scheduling Algorithm Based on Multi-Agent Reinforcement Learning with Affinity Constraints <i>Lingqi Kong, Dayu Zheng, Weiqi Hu</i>	
13:30–13:45	ICDTDE1093: Comparative Feasibility Analysis of Hyperloop Technology Versus Conventional Ferry Operations for Cross-Lake Freight Transport: A Case Study of Lake Van (Eastern Turkey) <i>Furkan Alperen SAKIN, Serdar DİNDAR</i>	
13:45–14:00	ICDTDE430: A Predictive Machine Learning Framework for Proactive Customer Satisfaction Management in Electricity <i>Kien Trung Ngo, Le Quyen Luu</i>	

14:00–15:30	Virtual Room B Meeting ID: 375 088 851 251 38 Passcode: sE6dx2Hh	
Session Chair: <i>Naveen Nandal</i> Session Code & Title: ICDTDE-TS58: Sustainable and Resilient Cities Through Data-Driven Engineering		
14:00–14:15	ICDTDE1087: AI-Driven Project Performance Management System for Engineering and Infrastructure Projects <i>Nisha Nandal</i>	
14:15–14:30	ICDTDE1088: Optimization-Based Decision Framework for Resource Planning and Operations Management in Engineering Projects <i>Naveen Nandal</i>	
14:30–14:45	ICDTDE1089: Digital Twin-Enabled Risk and Productivity Management for Construction and Industrial Operations <i>Naveen Nandal</i>	
14:45–15:00	ICDTDE929: The Role of Land Use Planning in Disaster Risk Reduction: The Case Of Montagne Ory, Mauritius <i>Y. Baguant, A. Seeboo, M. Nowbuth, Z. Doomah, P. Sitaram</i>	
15:00–15:15	ICDTDE931: Assessing and Proposing a Resilient City: A Case Study of La Laura Mauritius <i>Y. Baguant, A. Seeboo, M. Nowbuth, Z. Doomah, Rowinsen Dholah</i>	
15:15–15:30	ICDTDE932: Environmental Management in Cities Case Study of Central Flacq, Mauritius <i>Y. Baguant, A. Seeboo, M. Nowbuth, Z. Doomah, P. Sookharee</i>	

15:30–17:00	Virtual Room B Meeting ID: 318 994 544 047 36 Passcode: 3PN3Ts3w	
Session Chair: Session Code & Title: ICDTDE-TS59: Optimization, Digital Metrics, and Machine Learning for Societal Impact		
15:30–15:45	ICDTDE773: A framework of digital metrics for justifying the value of human capital investments in engineering <i>Valentyna Ivanova, Oleg Ivanov, Tetyana Kostyshyna, Maryna Morozova, Larysa Piddubna, Vitalii Shapovalov</i>	
15:45–16:00	ICDTDE447: Variable Neighbourhood Search for Solving Edge Dynamic Graph Coloring Problem <i>Rani Kumari, Kamal Srivastava</i>	
16:00–16:15	ICDTDE1032: The Impact of Financial Inclusion on Economic Growth: Case of Tunisia <i>Kaies SAMET</i>	
16:15–16:30	ICDTDE1029: A Systematic Literature Review and Delphi Study on Entrepreneurship Roles in Civil Infrastructure: Toward a Future Research Agenda <i>Ajeng Pramesti Setia Wibowo, Agung Purnomo</i>	
16:30–16:45	ICDTDE1132: Evaluation of Success Factors in Determining the Impact of Biomedical Engineering on Neurosurgical Operations <i>Elif Bilge Akinci, Ali Karasan, Elifnaz Olgac</i>	
16:45–17:00	ICDTDE757: Identifying Key Risk Factors for Breast Cancer Using Comparative Feature Selection Techniques <i>Z. Maalej, N. Kaouther, R. Fahmi</i>	

17:00–16:30	Virtual Room B Meeting ID: 315 311 595 624 25 Passcode: bz7D8Ji6
Session Chair: Stefanos Gkatzogiannis & Marios C. Phocas Session Code & Title: ICDTDE-T60: Engineering Intelligence and Digital Transformation for Green and Inclusive Growth	
17:00–17:15	ICDTDE527: Challenges in the Optimization of Adjustable Joints of Lightweight Reconfigurable Structures <i>Stefanos Gkatzogiannis, Eleftherios G. Vourkos, Eftychios G. Christoforou, Marios C. Phocas</i>
17:15–17:30	ICDTDE846: Implementation of Dispatching Rules for Job Scheduling in a Mobile Printer Assembly Line: A Case Study in Electronic Components Manufacturer <i>Huynh Nhat Trieu</i>
17:30–17:45	ICDTDE910: Simulation-Based Analysis of Electromagnetic Shielding in Polypyrrole Composites Using the ASTM D4935 Framework <i>Adhurim Hoxha, Aurela Qamili</i>
17:45–18:00	ICDTDE984: Research on the Impact of Digital Finance on Green Technology Innovation: A Quasi-Natural Experiment Based on the Pilot Program of Financial Technology Innovation Supervision <i>Xuwei Zhang, Qing Han, Zihao Wang, Jiaxi Tian, Qi Wang</i>
18:00–18:15	ICDTDE986: Can Digital Village Construction Enhance Financial Inclusion? —A Quasi-Natural Experiment Based on the Digital Village Pilot Program <i>Qing Han, Xuwei Zhang, Zihao Wang, Jiaxi Tian, Chenhuan Kou</i>
18:15–18:30	ICDTDE797: From Spatial to Semantic Tools and Back to Support the Resilience Analysis of Critical Infrastructures to Natural Hazards <i>M.L. Villani, A. Forlenza, S. Giovinazzi, L. Lavallo</i>

Virtual Room C

09:30–11:00	Virtual Room C Meeting ID: 334 175 469 813 9 Passcode: QY9x2gN6
Session Chair: <i>T.C. Manjunath</i> Session Code & Title: ICDTDE-TS61: AI-Driven Safety, Healthcare, and Sustainable Systems	
09:30–09:45	ICDTDE1112: Integrating Artificial Intelligence into medical imaging to enhance diagnostic accuracy through multi-stream attention-based CNNs while effectively addressing multi-modal data challenges to improve overall clinical outcomes <i>T.C. Manjunath</i>
09:45–10:00	ICDTDE958: Simulation of Intelligent Fire Protection System for Buildings and Spatial Visual Evacuation Design <i>Beibei Li, Yunyi Wu, Julian Lai, Weiqi Zhang</i>
10:00–10:15	ICDTDE967: Design of Building Fire Information Processing and Early-Warning System Based on Weighted Estimation and Multi-Model Fusion <i>Yinghao Gan, Jiguang Chen, Ting Shao, Weiqi Zhang</i>
10:15–10:30	ICDTDE997: Towards recycling and promoting sustainable nature-based solution for storm water capture using pervious pavement <i>Reshma Rughooputh, Fadeela Khadeejah Dulloo</i>

10:30–10:45	ICDTDE1098: A blockchain-enabled deep learning framework for privacy-preserving cloud forensics in healthcare <i>Kavyashree J, Dr. Vikas Reddy S</i>
10:45–11:00	ICDTDE1099: Adaptive and real-time intrusion detection system using lightweight deep learning and optimized feature engineering <i>Deepti N N, Dr. Dhanalakshmi B K</i>

11:00–12:30	Virtual Room C Meeting ID: 396 110 027 009 25 Passcode: RY7k6Dj7	
Session Chair: <i>Indrawati</i> Session Code & Title: ICDTDE-TS62: Data-Driven Consumer Behavior, Digital Communication, and Socio-Economic Systems		
11:00–11:15	ICDTDE1014: Consumer Preference Modelling for Electric Vehicles in Indonesia: A Conjoint Analysis Approach <i>Hendri Bhirowo, Indrawati, Indra Ardhanyudha Aditya, Handrea Bernando Tambunan, Refi Rifaldi Windya Giri, Fasa Maulidan Hakim, Fayza Najeela Pakutandang</i>	
11:15–11:30	ICDTDE1018: Pilot Assessment of Digital Health Communication via WhatsApp Business and Its Impact on Purchase Intention at Edelweiss Hospital Indonesia <i>Iman Sulaeman, Indrawati</i>	
11:30–11:45	ICDTDE1019: The Role of Virtual Influencers in Building Brand Trust Through Consumer Engagement: A Cultural and Consumer Trust Perspective <i>Sylvia Putri Setiawan, Indrawati</i>	
11:45–12:00	ICDTDE466: Discussion and Research for Inverted Rubber Players to Overcome Long Pimpled Rubber Opponents in Table Tennis <i>First A. Xing Yang, Second B. Kaiyan Lu, Third C. Congdian Cheng</i>	
12:00–12:15	ICDTDE668: An Integrated Dynamics Model of Vector-Borne Disease with Multiple Transmissions Modes <i>Eric N'Zi, Jacques Tano, Gerard Kanga, Mohamed Coulibaly, N'Guessan Anastase Mian</i>	
12:15–12:30	ICDTDE944: The Impact of University–Industry–Research Collaboration on Corporate Financial Health in the Digital Era—Empirical Evidence from an AI-Based Financial Diagnosis Database <i>X. Xiong, X. Jia</i>	

12:30–14:00	Virtual Room C Meeting ID: 370 207 808 705 02 Passcode: Hv2fp2L9	
Session Chair: <i>Samer R. Rababah</i> Code & Title: ICDTDE-TS63: Digital Technologies and Machine Learning in Manufacturing, Materials, and Economic Systems		
12:30–12:45	ICDTDE964: Comparative Analysis of 3D-Printed Smart Orthoses for the Dominant Upper Limb: Materials, Components, and Standards <i>Portilla David, Castillo Samuel, Avella-Rodríguez Edna, Plazas-Rosas Ramiro</i>	
12:45–13:00	ICDTDE987: Copyright Protection of FDM Products via Controlled Line Deviations <i>Pavel Tomashaytis, Victor Fedoseev, David Shapiro, Alexey Maximov</i>	

13:00–13:15	ICDTDE988: Digital economy, industrial restructuring and consumption upgrading <i>Haodi Lv, Jingxi Yan, Donghan Meng</i>
13:15–13:30	ICDTDE990: Research on the Effect of Digital Technology Promoting Agricultural Development — Based on Spatial Panel Regression Analysis <i>Jingxi Yan, Haodi Lv, Zixian Zhang</i>
13:30–13:45	ICDTDE1008: Machine-Learning-Based Evaluation of Freeze–Thaw Durability in Lime-, Cement-, and ZT-Stabilized Expansive Soils <i>Haitham Saleh, Samer R. Rababah, Abdulla A. Sharo</i>
13:45–14:00	ICDTDE835: Machine-Learning–Assisted Wavelet Whittle Estimation of Gegenbauer ARMAX <i>Alex C. Gonzaga</i>

14:00–15:30	Virtual Room C Meeting ID: 370 323 611 899 12 Passcode: k9XC3NF7	
Session Chair: <i>Bara’a R. Alnemrawi</i> Session Code & Title: ICDTDE-TS64: Advanced Modeling, AI, and Optimization in Hazard Mitigation and Structural Engineering		 Microsoft Teams
14:00–14:15	ICDTDE945: Effects of timeseries length in early warning tsunami systems using a spatio-temporal transformer <i>Ilias Chamatidis, Denis Istrati, Katsuichiro Goda, Nikos D. Lagaros</i>	
14:15–14:30	ICDTDE946: Investigating physics-based transformers in tsunami prediction <i>Ilias Chamatidis, Denis Istrati, Katsuichiro Goda, Nikos D. Lagaros</i>	
14:30–14:45	ICDTDE1124: Optimizing the Strengthening Efficiency of Double Skin Tubular Beams using Sustainable Hybrid LRS FRP System <i>Bara’a R. Alnemrawi, Rajai Z. Al-Rousan, Osama K. Nusier, Nikos Lagaros, Stelios K. Georgantzinos</i>	
14:45–15:00	ICDTDE1125: NLFEA Study on the Flexural Behavior of Double Skin Tubular Beams Strengthened with LRS FRP System: Inner Steel Tube Eccentricity Effect <i>B Bara’a R. Alnemrawi, Rajai Z. Al-Rousan, Osama K. Nusier, Nikos Lagaros, Stelios K. Georgantzinos</i>	
15:00–15:15	ICDTDE1126: The Extent Effect of Concrete Material on the Flexural Performance of Solid and Hollow Double Skin Tubular Beam <i>Bara’a R. Alnemrawi, Rajai Z. Al-Rousan, Osama K. Nusier, Nikos Lagaros, Stelios K. Georgantzinos</i>	
15:15–15:30	ICDTDE1156: Multiscale Stress Based Topology Optimization using local constraint enforcement <i>George Kazakis, Nikos D. Lagaros</i>	

15:30–17:00	Virtual Room C Meeting ID: 333 837 728 507 18 Passcode: gT2n8J4P	
Session Chair: <i>Alice Cervellieri</i> Session Code & Title: ICDTDE-TS65 : Machine Learning, Control Systems, and Energy & Structural Engineering Applications		 Microsoft Teams
15:30–15:45	ICDTDE504 : Advanced Wearable Sensors Combined with Random Forest Regression for physiological activity recognition	

	<i>Alice Cervellieri</i>
15:45–16:00	ICDTDE508: Combined approach for the design of robust controls by providing for the stability of the Lyapunov algorithm with Feed-Forward Neural Network method <i>Alice Cervellieri</i>
16:00–16:15	ICDTDE512: Advanced SOC Prediction for Lithium-Ion Batteries Using FNN Machine Learning Techniques: A Bayesian Regularization Training Approach <i>Alice Cervellieri</i>
16:15–16:30	ICDTDE513: A critical review of lithium-ion batteries cycling process from a safety testing prospective <i>Alice Cervellieri</i>
16:30–16:45	ICDTDE517: Literature review of SOH of lithium-ions batteries and their transformative role within sectoral innovation systems <i>Alice Cervellieri</i>
16:45–17:00	ICDTDE521: Optimization method for the evaluation of effects of pull on chains in historic masonry buildings applied to the case study of the Basilica of S. Maria Maggiore in Bologna <i>Alice Cervellieri</i>

17:00–18:30	Virtual Room C Meeting ID: 374 197 089 192 35 Passcode: ik3CB6s9	
Session Chair: <i>Alice Cervellieri</i> Session Code & Title: ICDTDE-TS66: AI-Driven Cyber-Physical Systems for Energy, Mobility, and Smart Construction		 Microsoft Teams
17:00–17:15	ICDTDE522: Optimization of performance of different air quality methods of cyber physical system with energy and comfort analysis <i>Prince K. Owusu, Gibson A. Owusu, Moses Aggor, Suleman Zakaria, Martins Alice Cervellieri</i>	
17:15–17:30	ICDTDE524: Application of Hybrid algorithm of artificial intelligent in association to PANAMA system's network in predict the accidents on the road <i>Alice Cervellieri</i>	
17:30–17:45	ICDTDE534: A FBPNN Artificial Intelligent approach to predict State of Health for Integration of Electric Vehicles into Vehicle-to-Grid (V2G) <i>Alice Cervellieri</i>	
17:45–18:00	ICDTDE536: State of Health Analysis of Lithium-Ion Batteries and Their Transformative Role in Sectoral Innovation Systems <i>Alice Cervellieri</i>	
18:00–18:15	ICDTDE537: Evaluation of energy and comfort analysis of rural buildings: Literature review and further research <i>Alice Cervellieri</i>	
18:15–18:30	ICDTDE567: Evolution of smart construction in the "Construction 5.0" sector analyzed using a forecasting method based on an Artificial Intelligence (AI) algorithm <i>Alice Cervellieri</i>	

Virtual Room D

09:30–11:00	Virtual Room D Meeting ID: 377 455 476 129 49 Passcode: ht9uk2Et	
Session Chair: <i>Dimitrios N. Gonidakis & Nguyen Tran</i> Session Code & Title: ICDTDE-TS67 : Advanced Computational Methods and Optimization in Engineering Systems		
09:30–09:45	ICDTDE1157 : Automated quantification of pronuclear dynamics and embryo ploidy <i>Panteleimon Tsakalis, Nikolaos Lagaros</i>	
09:45–10:00	ICDTDE878 : Topology Optimization for Daylight Analysis (T.O.DAY): A Constructability-Driven Methodology for Additively Manufactured Façades <i>Dimitrios N. Gonidakis, Nikolaos D. Lagaros</i>	
10:00–10:15	ICDTDE903 : Dual-Objective B.E.S.O.: Explicit Integration of Annual Daylight Autonomy into Structural Topology Optimization <i>Dimitrios N. Gonidakis, Nikolaos D. Lagaros</i>	
10:15–10:30	ICDTDE1054 : Unknown Input Observer-Based Estimation of Steering Rack Force in Steer-by-Wire Systems <i>Hoang Nguyen-Huy, Anh Tran-Tuan, Noi Truong-Quang, Nguyen Tran</i>	
10:30–10:45	ICDTDE1055 : Compact Dual-Circularly Polarized Patch Antenna for Drone Communication Systems <i>Thai Dinh Nguyen, Cuong Do-Manh, Trang Hoang-Thu, Nguyen Tran</i>	
10:45–11:00	ICDTDE1056 : Design of a Compact Wideband 8-Port MIMO Antenna using Dual-Polarized Radiators for C-Band Applications <i>Chengkai Kang, Liuyang Tao, Yilin Zhu, Haoyu Wang, Cong Ding</i>	

11:00–12:30	Virtual Room D Meeting ID: 351 504 158 520 28 Passcode: pU3Ef7Jo	
Session Chair: <i>Tianwen Zhao</i> Session Code & Title: ICDTDE-TS68 : Intelligent Robotics, Learning-Based Control, and Digital Twin Systems		
11:00–11:15	ICDTDE970 : Active distribution network voltage coordination control strategy based on multi-agent reinforcement learning <i>Chengkai Kang, Liuyang Tao, Yilin Zhu, Haoyu Wang, Cong Ding</i>	
11:15–11:30	ICDTDE971 : Modular robot self-assembly interaction paradigm design for non-professional users <i>Jiahao Yang, Zimo Song, Chengkai Kang, Yu Zhang, Shang Wu, Zhendong Ma</i>	
11:30–11:45	ICDTDE972 : Design and Motion Accuracy Compensation of Variable Curvature Continuum Robot Mechanisms Based on Conformal Geometry <i>Xiaolin Wang, Yuwen Su, Yunfei Jiang, Nuo Xu</i>	
11:45–12:00	ICDTDE973 : Data-driven prediction and uncertainty quantification of bearing remaining service life <i>Yongzhuang Li, Hongfang Shan, Yu Zhang, Junyi Li, Wenjing Zhou, Xinyu Bu</i>	
12:00–12:15	ICDTDE974 : Multimodal perception-based robotic flexible assembly force control process and digital twin verification <i>Hongfang Shan, Jiahao Yang, Yu Zhang, Wenkai Shi, Xuyin Han, Chengkai Kang</i>	

12:15–12:30	ICDTDE975: Adaptive gripper design and grasping mechanics simulation based on variable stiffness soft robot <i>Xiaolin Wang, Yongzhuang Li, Yu Zhang, Zichen Tang, Yuxiang Hu</i>
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12:30–14:00	Virtual Room D Meeting ID: 384 262 658 328 56 Passcode: Hg7Ee7n2	
Session Chair: <i>Priti Sharma & Himani Upreti</i> Code & Title: ICDTDE-TS69: Sustainable Development, CSR, and Digital Innovation for Inclusive Growth		
12:30–12:45	ICDTDE1064: A review of Goals of sustainable economic growth, creativity, and infrastructure aligned with SDG 9 <i>Priti Sharma, Rupa Khanna Malhotra, Himani Upreti</i>	
12:45–13:00	ICDTDE1065: Industry 5.0 as a Catalyst for Resilient Poverty Reduction Policies <i>Priti Sharma, Rupa Khanna Malhotra, Himani Upreti</i>	
13:00–13:15	ICDTDE1068: Eco-Friendly Tourism and Hospitality: Balancing Growth with Environmental Responsibility <i>Priti Sharma, Rupa Khanna Malhotra, Himani Upreti, Sangeeta Bagga</i>	
13:15–13:30	ICDTDE1071: Building Sustainable Communities: CSR Contributions to Affordable Housing, Mobility, and Resilience under SDG 11 in India <i>Himani Upreti, Rupa Khanna Malhotra, Priti Sharma</i>	
13:30–13:45	ICDTDE1073: Artificial Intelligence Tools Driving Innovation and Advancements in Audit and Assurance: Towards Intelligent Risk Management and Transparency <i>Himani Upreti, Rupa Khanna Malhotra, Priti Sharma</i>	
13:45–14:00	ICDTDE1074: Decadal Trends and Comparative Dynamics of CSR Spending by PSUs and Non-PSUs in India: Statistical Insights and Forecasts for Sustainable Development <i>Himani Upreti, Rupa Khanna Malhotra, Priti Sharma</i>	

14:00–15:30	Virtual Room D Meeting ID: 359 853 632 946 65 Passcode: Xb3wh2eH	
Session Chair: <i>Linh My Dao</i> Session Code & Title: ICDTDE-TS70: Design Optimization and Control of Advanced Engineering Systems		
14:00–14:15	ICDTDE952: Design Optimization of a Washing Machine Spider Arm Considering Manufacturing Constraints <i>Onur Çolak, Kübra Polat, Musa Uzun, Cahit Atagün, Mehmet Murat Topaç</i>	
14:15–14:30	ICDTDE1052: Formation Control Design for Multi-UAV Systems under Linear Disturbance Estimation <i>Linh My Dao, Thiem V. Pham, Nam Hoai Nguyen</i>	
14:30–14:45	ICDTDE1053: Attack Design on Consensus of Second-Order Multi-Agent System <i>Dao Minh Thanh, Khanh Huy Tran, Linh My Dao</i>	
14:45–15:00	ICDTDE1057: Compact Sub-6 GHz Patch MIMO Antenna with High Isolation for Handheld Devices <i>Tu Chu-Anh, Tan Dao-Duc, Dat Tran-Huy, Hung Tran-Huy</i>	

15:00–15:15	ICDTDE1130: Parametric statistical scheme for tracing the transmission of total harmonic distortion between a power network analyzer and an oscilloscope <i>Francisco Espín, Carlos Velásquez, Byron Silva, Paola Andrade</i>
15:15–15:30	ICDTDE966: The Role and Development of Business Intelligence in the Banking Sector and Its Implications for AI Project Management Practices: A Systematic Literature Review <i>Melsiora Saniba Fernandes, Teguh Raharjo, Ni Wayan Trisnawaty</i>

15:30–17:00	Virtual Room D Meeting ID: 327 948 756 599 14 Passcode: Ch974WU6	
Session Chair: Session Code & Title: ICDTDE-TS71: Smart Control, Circular Construction, and Resilient Infrastructure		
15:30–15:45	ICDTDE1095: Data-Driven Torque and Temperature Estimation in PMSM Drives Using NARX Neural Networks <i>Ghiorghita Dan Ionut, Marian Gaiceanu, Razvan Buhosu</i>	
15:45–16:00	ICDTDE1100: Trajectory Tracking of an Ackermann-Driven Unmanned Ground Vehicle Using Lyapunov-Based Nonlinear Kinematic Control <i>Razvan Buhosu, Marian Gaiceanu, Ghiorghita Dan Ionut</i>	
16:00–16:15	ICDTDE998: Stakeholders' perspective on sustainability, planning, restoration and management of the coastline of Mauritius: a thematic analysis approach <i>Reshma Rughooputh, Myrna Jharittay</i>	
16:15–16:30	ICDTDE999: Construction and demolition wastes (CDW) management in Mauritius for circularity in construction materials towards resilient cities <i>Reshma Rughooputh, Zakiyyah Jugon</i>	
16:30–16:40	ICDTDE1143: The probability law (distribution) of "LBDGP" birth and death processes <i>Aziz Arbai</i>	
16:40–16:50	ICDTDE1159: In search of the distribution of finite-state birth and death processes <i>Aziz Arbai</i>	
16:50–17:00	ICDTDE1160: 3x3 Matrix: Calculation of the n-th Power and the exponential <i>Aziz Arbai</i>	

17:00–18:30	Virtual Room D Meeting ID: 352 001 306 294 18 Passcode: wz7Rz7r8	
Session Chair: Marian GAICEANU Session Code & Title: ICDTDE-TS72: Smart Monitoring and Control in Modern Engineering Systems		
17:00–17:10	ICDTDE1076: Autonomous Control of Biochemical Nanorobots for Retinal Navigation <i>Mircea Gabriel Weingart, Marian GĂICEANU, Ionuț MARCU</i>	
17:10–17:20	ICDTDE1096: Fuzzy Control of the Three-phase Shunt Active Power Filter (SAPF)	

	<i>Marian Găiceanu, George-Andrei Marin, Marius George Solomon, Razvan Buhosu, Gheorghita Dan Ionut</i>
17:20–17:30	ICDTDE1097: AI-driven Control of Electric Drives <i>Marian Gaiceanu, Razvan Buhosu, Gheorghita Dan Ionut, Ionuț Marcu, Raluca-Elena Necula</i>
17:30–17:40	ICDTDE1081: Harmonic Analysis of a Three-Phase Hybrid Photovoltaic System <i>George-Andrei Marin, Marian Gaiceanu, Raluca-Elena Necula, Marius Solomon</i>
17:40–17:50	ICDTDE1111: Communication Protocols for Real-Time Power Quality Monitoring in Intelligent Electrical Networks <i>George-Andrei Marin, Marian Gaiceanu, Raluca-Elena Necula, Marius Solomon</i>
17:50–18:00	ICDTDE1090: Numerical Analysis of a Delay-Robust Teleoperation System Implemented in MATLAB/Simulink <i>Ionel Stănescu, Marian Găiceanu, George-Andrei Marin, Marius George Solomon, Razvan Buhosu, Mircea Gabriel Weingart</i>
18:00–18:15	ICDTDE1091: Analysis of Profibus Communication Network Signal Quality Using a Network Analyzer <i>Raluca-Elena Necula, Marian Găiceanu, Marius Solomon, George-Andrei Marina</i>
18:15–18:30	ICDTDE1094: Analysis of the Deforming Regime Generated by the Operation of an Industrial Water Cooling Tower <i>Marius Solomon, Marian Găiceanu, Raluca-Elena Necula, George Andrei Marin</i>