

# ICWTNS-2025 Conference Program Schedule-10-11 May 2025 (Indian Time)

## DAY-1

(Indian Date)	(Indian Time)	(Peru Date)	(Peru Time)	
10-May-25	7:00- 07:20 AM	9-May-25	8:30- 08:50 PM	Inauguration & Speech by Chief Guest (Prof. Dr. Narendra S Chaudhari, Vice-Chancellor -Assam Science and Technology University -ASTU, India), Guest-of-Honour (Dr. Ir. Neeli Prasad, CEO & Co-Founder, SmartAvatar B.V., The Netherlands, Prof. K.S. Musti, NUST, Namibia, and Dr. Ashraf Samarah, Associate Professor, Electrical Engineering Department, University of Cincinnati, Ohio, USA) and Welcome speech by General Chairs (Prof. DR. CIRO RODRIGUEZ, UNFV and UNMSM, Peru, AND Prof. DR. ASHISH BAGWARI, India) to all the by Keynote Speakers, Session Chairs, Paper Presenters and attendees, etc.
10-May-25	07:25- 08:00 AM	9-May-25	08:55- 09:30 PM	Kenote Speaker - 1 (Dr. Ciro Rodriguez), Universidad Nacional Mayor de San Marcos UNMSM, Peru
10-May-25	08:05- 08:40 AM	9-May-25	09:35- 10:10 PM	Kenote Speaker -2 (Dr. Bhagwan Das), Associate Professor, Torrens University, Australia

TS-1 (A)	Session Chair(s)	DR. K.S. MUSTI, NUST, Namibia	
10-May-2025, 09:00 AM to 11:00 AM Indian Time/ 09-May-2025, 10:30 PM to 12:30 AM (10-May-2025) Peru Time.			
S.No.	Paper ID	Title of Paper	Author (s)
1	ICWTNS-2025_540	Detecting Evolving Deception Patterns in Online Reviews	Tripti Verma, Saloni Choudhary, Janvi, Greeshma Arya
2	ICWTNS-2025_542	Financial Fraud Detection with EnhancedGNN: A Comparative Study on Graph-Based vs. Traditional Fraud Detection Methods	Riya Gupta, Shelly Bhalla, Nandini Parashar, Greeshma Arya
3	ICWTNS-2025_530	Investigating Material Degradation in Aerospace Applications through Advanced Structural Analysis	Swati Prajapati, Akhilesh Kalia, Nandakishora Y, Shubham Goswami, Shubham Goswami, Daljeet Pal Singh, Kanika Seth
4	ICWTNS-2025_124	English-Punjabi Code-mixed Text Generation	MUKHTIAR SINGH, Parul Sood, Munish Kumar
5	ICWTNS-2025_136	Mapping Urban Expansion in Dehradun City: A SAR-Based Analysis Using Sentinel-1 Data	Pooja Joshi, Devanshu Ghildiyal, Ashutosh Bhatt, Neelam Sharma
6	ICWTNS-2025_155	Price Prediction of Cryptocurrency	Utkarsh Upadhyay, Saurav Rana, Jyoti Yaduwanshi
7	ICWTNS-2025_164	Enhancing Oil-Water Separation: Impact of Nanoparticle Coatings on Quartz Particles	Nthabiseng Ramanamane, Mothibeli Pita
8	ICWTNS-2025_166	A Comparative Analysis of Electrical Parameters in PVA/Zn Dust and PVDF/Zn Dust ionic Membranes	Poonam Raturi, Antima Chamoli
9	ICWTNS-2025_169	Evaluating Low-Cost Absorbent Materials to Develop Selection Criteria for Advanced Oil-Water Separation Devices	Nthabiseng Ramanamane, Mothibeli Pita
10	ICWTNS-2025_181	SMART GRAIN DRYER FOR MOISTURE CONTROL USING SOLAR POWER	Dr. Prasanta Pratim Bairagi

TS-1 (B)	Session Chair(s)	DR. AADESH KUMAR, UPES, India	
10-May-2025, 09:00 AM to 11:00 AM Indian Time/ 09-May-2025, 10:30 PM to 12:30 AM (10-May-2025) Peru Time.			
S.No.	Paper ID	Title of Paper	Author (s)
1	ICWTNS-2025_159	Dynamic Q-Learning-Based Handover in VANETs: An Approach for Li-Fi Based Handover Techniques	Chinmoy S Kalita, Maushumi Barooah
2	ICWTNS-2025_545	Evaluating LLM-Based Summarization for Scientific Documents	Shreya Bansal, Ishika, Greeshma Arya
3	ICWTNS-2025_175	A Novel Strategy for Boosting the Positive Electrode Potential of Lithium Iron Phosphate batteries by Leveraging SPMe in Pybamm	Keren Persis P and Dr. R.Geetha

4	ICWTNS-2025_353	Design and simulation of advanced control systems for wind turbines	Aakash Sharma, Kumari Kasturi, Jaydeep Pipaliya, Ramachandran Thulasiram, Shashikant Patil
5	ICWTNS-2025_179	The Industrial Revolution 5.0: Transforming the Healthcare Industry	Mohit Singh Bisht, Amandeep Kaur
6	ICWTNS-2025_183	AI-DRIVEN COGNITIVE HEALTH MONITORING SYSTEM	D.S.Thyagaraaj, barathikannan
7	ICWTNS-2025_185	Deep-Learning-Based Fake News Detection for Afaan Oromo Language on Social Media Networks: A Systematic Literature Review	Kedir Lemma Arega, Kula Kekeba Tune, Ayodeji Olalekan Salau, Asrat Mulatu Beyene, Wegderes Tariku
8	ICWTNS-2025_187	Predicting Lithium Ion Battery Remaining Life with Boosting Algorithms and Random Forest Enhanced by Explainable AI for Feature Relevance.	Keren Persis, Dr. R. Geeth
9	ICWTNS-2025_189	GA-based Optimized CNN Network for Image Classification	Wasim Khan, Dr. L.K. Vishwamitra,
10	ICWTNS-2025_269	Measurement of Aerodynamic Forces on Wind Turbine Blades using Optical Instrumentation	Daxa Vekariya, Shweta Singh, Ramesh Saini, Pachayappan R, Jaswinder Singh, Santanu Kumar Sahoo, Madhur Grover

TS-1 (C)	Session Chair(s)	DR. Abhishek Bhatt, Centre for artificial intelligence, Madhav institute of technology and science, Deemed University, Gwalior, India					
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10-May-2025, 09:00 AM to 11:00 AM Indian Time/ 09-May-2025, 10:30 PM to 12:30 AM (10-May-2025) Peru Time.

S.No.	Paper ID	Title of Paper	Author (s)
1	ICWTNS-2025_193	PROACTIVE NETWORK SECURITY	Balaji.V, Prince.T
2	ICWTNS-2025_195	Optimization-Driven Vendor Selection with Tabu Search and Neural Networks	Santosh Kr. Gupta, Anubhava Srivastava, Vivek Kumar
3	ICWTNS-2025_197	Real Time Traffic Signal Monitoring And Route Optimization	Mrs. K Pushpavalli, kishanraj.NS, Lingesh.s
4	ICWTNS-2025_199	IoT Based Automatic Road Condition Detection	KAVIARASAN.S, KAVINKUMAR.P
5	ICWTNS-2025_201	Review on Dam Monitoring: Bridging the Gap Between Maintenance and Fish Conservation	Tasneem Bano Rehman1, Nusrah Khan, G. Sailaja, Iram Fatima, Nuha Naser
6	ICWTNS-2025_203	PROXY RE-ENCRYPTION APPROACH FOR SECURE DATA SHARING BASED ON BLOCKCHAIN	KUMAR PAROP GOPAL, MOHAMMED IBRAHIM R, MOHAMMED ZUHAID C
7	ICWTNS-2025_286	INNOVATIVE FLOOD RISK ASSESSMENT INTEGRATING (LSTM) NETWORK FOR RAINFALL PREDICTION AND IMAGE BASED DAMAGE ANALYSIS	KAVINYA P,GAYATHRI S
8	ICWTNS-2025_173	A Critical Investigation and Analysis on Seasonal Crop Mapping of various Crops Using Machine Learning Algorithms	Prasanth Yalla, Ch. Hari Satyam, K . Neeharica, K. Sridevi, R.Lohith Reddy
9	ICWTNS-2025_207	Maximizing Energy Conservation and Efficiency through Dynamic Modelling and Natural Materials in Architectural Design	Awakash Mishra,Kiran Hiremath,Sorabh Sharma,Evelyn Jeny4,Anusudha Visvanathan,Binod Kr Choudhary
10	ICWTNS-2025_208	Assessing the Environmental Impact of Biosciences in Natural Resources Management through Energy Conservation	Pratima Srivastava, Kusum Lata, Julie Sunil, Suhas Gupta, Abhinav Mishra, Michael Rahul Soosai, Pavan P S

TS-1 (D)	Session Chair(s)	DR. Ayappasamy. K, Associate Professor, School of Computational Intelligence, Joy University, Tamilnadu, India					
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10-May-2025, 09:00 AM to 11:00 AM Indian Time/ 09-May-2025, 10:30 PM to 12:30 AM (10-May-2025) Peru Time.

S.No.	Paper ID	Title of Paper	Author (s)
1	ICWTNS-2025_209	Dynamic Modelling of Energy Conservation in Nature-Inspired Architecture	Frederick Sidney Correa, Shuthanshu Marwaha, Kannagi Anbazhagan, Naresh Sharma, Kusum Lata, Chandan Chavadi, Guruji v

2	ICWTNS-2025_210	Analysis of Remote Sensing framework for Monitoring and Managing Soil Contamination	J.Vanjinathan, Jasbir Singh Dhanjal, Pavas Saini, Shivam Khurana, Srikantha H, Teena Vats, Guru Prasad A
3	ICWTNS-2025_211	Leveraging Big Data and Artificial Intelligence for Effective Air Pollution Mitigation Strategies	Preeti Gupta, Jaspreet Sidhu, Prateek Aggarwal, Rajasekar, Bharathi B, Divya Paikaray, Ankita Thakur
4	ICWTNS-2025_212	A Remote Sensing and Modelling Approach for Effective Environmental Management	Cheshta, Ms.Merliyn Gomes, Dimple Bahri, Dr.ESHANTHINI.P, Dr Nikita Shukla, Vaibhav Kaushik
5	ICWTNS-2025_213	An improved deep Learning for Effective Environmental Assessment and Management	Lakshya Swarup, Dr Teena Vats, Ms.Anita Rajendran, Sunil Kumar M, Prakriti Kapoor, Dr . ALBERT MAYAN .J , Dr. Amit Kumar Shrivastav
6	ICWTNS-2025_215	A Comprehensive Analysis of Energy Storage Options for Large-Scale Renewable Integration	Beemkumar Nagappan, Nishant Kumar, Awakash Mishra, Satarupa Misra, Pooja Sharma, Yuvraj Parmar, BARANI SELVARAJ
7	ICWTNS-2025_217	Investigation of heat transfer enhancement using microchannel cooling	Dhirendra Nath Thatoi, Ajay Kumar, Ramachandra C G, S.P. Venkatesan, Pratibha Sharma
8	ICWTNS-2025_218	Performance analysis of turbulent heat transfer in a boundary layer using laser Doppler anemometry	Mohamed Jaffar A, Sikata Samantaray, Kanika Jindal, Madhusudhan M, R Siva, Himanshu Makhija
9	ICWTNS-2025_219	Thermo-hydraulic analysis of a direct absorption solar collector in Building Integrated Photovoltaics	Ansh Kataria, G.Senthil Kumar, Satish Upadhyay, Tapaswinee Das, Anant Prakash Agrawal, Basavaraj Devakki, Mohit Gupta
10	ICWTNS-2025_220	Numerical simulation of natural convection in a ventilated room with variable heat sources	Premananda Pradhan, Jaskirat Singh, Prabha Shreeraj Nair, Prashanth S P, Devyani


TS-2 (A)	Session Chair(s)	Dr. Vikash Singh, Associate Professor, Dept. of Instrumentation and Control Engineering, Manipal, Karnataka, India					
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10-May-2025, 11:00 AM to 01:00 PM Indian Time/ 10-May-2025, 12:30 AM to 02:30 AM Peru Time.							
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S.No.	Paper ID	Title of Paper	Author (s)
1	ICWTNS-2025_221	Heat transfer characteristics of pulsating heat pipes under varying operating conditions	Satish Upadhyay, Shakti Prakash Jena, Simran Kalra, Pulkit Srivastava, Prabhukumar Sellamuthu, Nivin Joy Thykattuserry
2	ICWTNS-2025_222	Thermodynamic optimization of a heat exchanger network using genetic algorithm	M.Anish, Mohamed Jaffar A, Mohan Garg, Nipun Setia4, Rashmi Ray, Kumud Saxena, Gopidesi Radha Krsihna
3	ICWTNS-2025_223	Heat transfer augmentation using bio-inspired surface modifications in fluid flow	Anupama Routray, Sanjay Kumar, Vijaykumar G, S.Lakshmi Sankar, Shubhansh Bansal
4	ICWTNS-2025_224	Thermodynamic analysis of hybrid power systems for sustainable energy production	Raman Batra, Tanmayee Khuntia, Umesh Daivagna, Pavas Saini, Nandakishora Y, S.Ganesan
5	ICWTNS-2025_226	Assessing the Impact of Sustainable Development on Ecosystem Health: A Multidisciplinary Approach	Nakul Ramanna Sanjeevaiah, ROSHITA, Vivek Saraswat, L.INBATHAMIZH, Aparna Sharma
6	ICWTNS-2025_227	Ecosystem Analysis and Protection Strategies for Achieving Sustainable Development Goals	Varsha Agarwal, Shrishail B Anadinni, Ezhilarasan Ganesan, Quaisar Alam, INDUMATHI S M, Simranjeet Nanda
7	ICWTNS-2025_228	The Role of Geographic Information Systems in Sustainable Development Planning	Amit Kumar, Varun Ojha, GURUJI V, Zulieka Homavazir, Dayalan J, Pushparajesh V, Vinod Kumar Singh
8	ICWTNS-2025_229	Integrating Environmental Education into Sustainable Development Initiatives	Toppaldoddi Madhavi, Anoop Dev, Wakeel Ahmed, V. RAMESH KUMARR, Srikantha H

9	ICWTNS-2025_230	The Importance of Public Participation in Sustainable Development Decision Making					BAVANILATHA M, Divya Nair, Ahmadi Begum, Varsha Agarwal, Devi Prasad, Mukul Mishra
10	ICWTNS-2025_232	Integrating Technological System for Enhanced Fire Prevention and Protection to Safeguard Infrastructure					Sourav Rampal,Naveen Kumar Rajendran, Santhosh M B,Vimal Bibhu, E.Logashanmugam
TS-2 (B)	Session Chair(s)	Dr. Kuntal Ghosh, Savonia University of Applied Sciences, Finland					
10-May-2025, 11:00 AM to 01:00 PM Indian Time/ 10-May-2025, 12:30 AM to 02:30 AM Peru Time.							
S.No.	Paper ID	Title of Paper					Author (s)
1	ICWTNS-2025_233	Challenges and Solutions in Implementing Integrated Transportation Systems for Disaster Management					Kunal Meher, Jatin Khurana, Naveen Kumar Rajendran, Bhavan Kumar, Gagan Tiwari, G.Sundari
2	ICWTNS-2025_234	Exploring the Role of Surveillance Systems in Infrastructure Protection Strategies					Ebin Horrison S, Vinima Gambhir, Dushyanth V Babu, Dayalan J, Veerendra Yadav, Tannmay Gupta, Bharat Bhushan
3	ICWTNS-2025_235	Assessing Crime Risk and Improving Response Efforts with Integrated Technological Systems					Toppaldoddi Madhavi, Abhiraj Malhotra, Vivek Kumar Sinha, Surya.R, Sunil Kumar M
4	ICWTNS-2025_236	The Use of Early Warning and Response Systems for Earthquake Disaster Management					Umesh Daivagna, Divya Nair, Sunil Kumar M, Yuvraj Parmar, Megalan Leo L, Nisha Pandey
5	ICWTNS-2025_238	Securing Transportation Infrastructure through Effective Surveillance Systems					Alok Kumar Moharana, Ms. Priyadharshini B ,Pooja Sharma, Kanika Seth, Ms. Abhipsa Kar, Dr. Kusum Lata, Mr.Vinay A
6	ICWTNS-2025_239	Utilizing Crime Risk Assessment in the Development of Integrated Technological Systems					Rahul, Dr. Trilochan Jena, Dr. Archita Dash, Dr.Eshanthini.P, Dr. Trapty Agarwal, Harsimrat Kandhari, Ms.Brindha N
7	ICWTNS-2025_240	Enhancing Disaster Preparedness with Integrated Early Warning and Response Systems					Awakash Mishra, Ms.Inchara P, Swagatika Senapati, Saniya Khurana, V Sampathkumar, Shweta
8	ICWTNS-2025_241	Integrating Cybersecurity Measures for Protection of Critical Infrastructure					R Nirmala, Kusum Lata, Isani Gazala Banu Abdul Gafar, Ayaan Faiz, Nibedita Pradhan, Syed Rashid Anwar
9	ICWTNS-2025_243	Urban transport planning and management: A comprehensive framework for sustainable and efficient cities					Shriya Mahajan, Nakul Ramanna Sanjeevaiah, Gagan Tiwari, DR V SAMPATHKUMAR, Dr. Pradeep Kumar Sahoo
10	ICWTNS-2025_244	Evaluating the feasibility of implementing public transport systems in developing urban areas					Sreyansu Satya Prakash, Sahil Suri, Shrishail B Anadinni, Deepika Sharma, R NIRMALA, Vinima Gambhir
TS-2 (C)	Session Chair(s)	Dr. J.Logeshwaran, Department of Computer Science, CHRIST University, Bengalureu, India					
10-May-2025, 11:00 AM to 01:00 PM Indian Time/ 10-May-2025, 12:30 AM to 02:30 AM Peru Time.							
S.No.	Paper ID	Title of Paper					Author (s)
1	ICWTNS-2025_245	Transportation modelling and simulation for efficient and sustainable urban transport planning					Vinima Gambhir, Lasyamayee Garanayak, Sumeet Kaur, Ayaan Faiz, Dayalan J, Yazdani Hasan, DEVYANI
2	ICWTNS-2025_246	Leveraging communications and signalling technologies for improved urban transport management					Toppaldoddi Madhavi, Vimal Bibhu, RAM KUMAR, Abhipsa kar, Ashu Katyal

3	ICWTNS-2025_247	Rescheduling strategies for improving the reliability of urban public transport systems				Rashmisikha Beher, Divya Nair, Yogesh Jadhav, Gourav Sood, Arjit Tomar, SURYA.R
4	ICWTNS-2025_249	Agent-based Modeling for Analyzing Traffic Congestion in Smart Cities: A Complex Systems Approach				GURUJI V, Pancham Cajla, Shreya Ghosal, Noreen Alexeena Datta, GOPALAKRISHNA V, Sweta Kumari,Khushbu Pandey
5	ICWTNS-2025_250	An Emergence-Based Framework for Evaluating Resilience in Transportation Systems of Smart Cities				Praney Madan, Noopur Pandey, M Ramani Balu, ROSHITA, N MOHANA GOPIRAJ, Charu Wadhwa, Ankita Thakur
6	ICWTNS-2025_251	Predictive Analytics for Efficient Public Transportation Planning in Complex Smart City Systems				Cheshta, Mohanraj Subramanian, Katharaj I, EVELYN JENY, Mukul Pandey, Neelesh Singh
7	ICWTNS-2025_252	Real-Time Adaptive Traffic Control Strategies for Optimizing Complex Interactions in Smart City Transportation				Rajeev Kumar Sinha, Khushbu Pandey, Honey Raj, Sahil Khurana, Pradeep Marwaha, DASARATHY A K, VANITHA.S
8	ICWTNS-2025_254	Integrating Data Mining and Process Management for Effective Decision Making in Mobile Cloud				Trapty Agarwal, Radhika Sreedharan, T. PREM JACOB , Sagar Gulati, Wamika Goyal
9	ICWTNS-2025_255	Audiovisual Data Mining for Automated Multimedia Content Analysis				Sarbeswar Hota, Awakash Mishra, Praveena K N, R AROUL CANESSANE, K. Suneetha, Ayush Gandhi
10	ICWTNS-2025_256	Optimizing Peer-to-Peer Data Management in Distributed Systems				Murugan R, Bichitrananda Patra, Dikshit Sharma, Sidhant Das, Harish Kumar K.S, M.Saravanan, Kusum Lata
TS-2 (D)	Session Chair(s)	DR. GREESHAMA ARYA, Indira Gandhi Delhi Technical University for Women, New Delhi, India				
10-May-2025, 11:00 AM to 01:00 PM Indian Time/ 10-May-2025, 12:30 AM to 02:30 AM Peru Time.						
S.No.	Paper ID	Title of Paper				Author (s)
1	ICWTNS-2025_257	Maximizing Efficiency in Distributed Data Management through Cloud Platforms				Srinivas Mishra, S GOWRI, Clara Shanthi D, Manoranjan Parhi, Ankita Thakur, Madhur Taneja, Jatin Khurana
2	ICWTNS-2025_258	Data Mining and Machine Learning for Real-Time Fault Detection in Internet of Things (IoT) Networks				Ansh Kataria, Nihar Ranjan Nayak, MARY GLADENCE L, Gobi N, Satya Ranjan Das, Cheshta
3	ICWTNS-2025_259	A Process-Centric Approach to Continuous Data Management in Large-Scale Systems				Prabhat Ku.Sahu, Trapty Agarwal, Pratibha Sharma, Ashmeet Kaur, Tintu Vijayan, NIRMALRANI V, Preethi D
4	ICWTNS-2025_260	Big Data Analytics for Fault Detection and Prediction in Distributed Data Management				R.M. GOMATHI, Prabhu A, Jaskirat Singh, Yuvraj Parmar, Sarada Prasanna Pati, Kusum Lata, Saravana Kumar S
5	ICWTNS-2025_261	Data Mining Strategies for Efficient Process Management in Scientific Computing				Vijaya Kumar A <sup>1</sup> , Simran Kalra <sup>2</sup> , J JABEZ <sup>3</sup> , Manju Bargavi S K <sup>4</sup> , Smita Rath <sup>5</sup> ,Savita <sup>6</sup>
6	ICWTNS-2025_262	Streamlining Audiovisual Data Mining in Cloud Computing Environments				Nipun Setia, Sudhanshu Dev, Ankita Thakur, Aarif Ahamed S, P.Ajitha, I Brem Navas, Trushna Parida
7	ICWTNS-2025_264	Enhancing System Performance through Effective System Estimation Strategies				Kiran Hiremath, Aneesh Wunnava, Amit Gantra, P S Raghavendra Rao, Mukul Mishra
8	ICWTNS-2025_265	Exploring the Applications of Deep Learning in System Diagnosis and Analysis				Vipul Vekariyar, Julie Sunil, Praveen Priyaranjan Nayak, Rekha Kumari, Vimal Bibhu, Nittin Sharma
9	ICWTNS-2025_266	A Framework for Designing Effective System Learning Strategies for Organizational Change				Arjit Toma, Kamal Sutaria, Takveer Singhr, Neelesh Singhr, K Ravindran, Pratyashi Satapathy, Vinay Kumar Sadolalu Boregowda
10	ICWTNS-2025_267	A Comparative Analysis of Traditional and Data-Driven Approaches to System Diagnosis				Prerak Sudan, R Suchithra, Sarbeswar Hota, Ved Prakash Khatik, Sanjay Agalr

Break Time		(10-May-2025, 01:00 PM to 02:00 PM) Indian Time/ (10-May-2025, 02:30 AM to 03:30 AM)					
TS-3 (A)	Session Chair(s)	Dr. Bhagwan Das, Associate Professor, Torrens University, Australia					
10-May-2025, 02:00 PM to 04:00 PM Indian Time/ 10-May-2025, 03:30 AM to 05:30 AM Peru Time.							
S.No.	Paper ID	Title of Paper				Author (s)	
1	ICWTNS-2025_268	Real-time Visualization of Thermal Deformations in High-temperature Industrial Processes using Optical Sensors				Shweta Singh, Manisha Chandna, Veena S Badiger, Deepika Sharma, Asit Kumar Subudhi, Swapnil M Parikh	
2	ICWTNS-2025_191	Hyper tuning of CNN based image classification model using different AI based optimization technique				Wasim Khan, Dr. L.K. Vishwamitra,	
3	ICWTNS-2025_270	Characterization of Medical Instrumentation for In-situ Thermal Sensing of Tumor Margins during Surgery				Sheetal, Biswaranjan Swain, Chintan thacker, B.P. Singh, Simranjeet Nanda	
4	ICWTNS-2025_271	Visualization and Thermal Measurement of Fluid Flow and Heat Transfer in Microchannels using Optical Techniques				Yazdani Hasan, Anitha D Souza J, Sasmeeta Tripathy, Yassir Farooqui, B.P. Singh, Shikhar Gupta	
5	ICWTNS-2025_272	Remote Monitoring of Thermal Deformations in Automotive Brake Systems using Optical Sensors				Kuthalingam venkadeshwaran, Saurabh Kumar, Pushpalatha M, Anoop Dev, Prateek Garg, V.K. BUPESH RAJA, Veena S Badiger	
6	ICWTNS-2025_273	An Integrated Approach to System Analysis for Complex Cyber-Physical Systems				MARY POSONIA A, Siddharth Sriram, Jagmeet Sohal, Vinay Kumar Sadolalu Boregowda, Sonam Singh Bhati, Saira Banu, Vasantha Kumari N	
7	ICWTNS-2025_274	Uncovering Latent System Learning Patterns through Machine Learning in Large-Scale Data Sets				Thabassum Khan, S.PRINCE MARY, Amit Gantra, P S Raghavendra Rao, Suraj Singh, Sahil Suri	
8	ICWTNS-2025_275	Enhancing Precision based Performance Estimation of Electrical Systems Using Machine Learning framework				Abhay Bajpai, Sorabh Sharma, Abhishek Singla, Mohamed Shakir, Poonguzhali S, Santanu Kumar Sahoo, P S Raghavendra Rao	
9	ICWTNS-2025_276	Optimized Control System Design for Improved Performance and Reliability of Electrical Power Grids				Sukhman Ghumman, Sourav Rampal, Hannah Jessie Rani R, Keerti Rai, Adesh Kumar Mishra, Radhika Sreedharan, Rameshbabu A	
10	ICWTNS-2025_277	Multi-Objective Optimization of Electrical Systems using Genetic Algorithms				S.Radhika, Hannah Jessie Rani R, Sulabh Mahajan, Adesh Kumar Mishra, Praveena K N, Chandra Prabha Sahu	
TS-3 (B)	Session Chair(s)	Dr. R.Senthil Kumaran, Dept. of ECE, SRM Institute of Science and Technology, Kattankulathur Campus, India					
10-May-2025, 02:00 PM to 04:00 PM Indian Time/ 10-May-2025, 03:30 AM to 05:30 AM Peru Time.							
S.No.	Paper ID	Title of Paper				Author (s)	
1	ICWTNS-2025_278	Bayesian Estimation for Nonlinear Dynamical Systems: A Comparative Analysis				Harish Kumar K.S, Bharat Bhushan, Savitha R, Amit Kumar Shrivastav, Pawan Kumar Dixit, Megalan Leo L, Tarun Kapoor	
2	ICWTNS-2025_280	Investigating Chemical Analysis Techniques for Material Characterization and Property Prediction				MICHAEL RAHUL SOOSAI, Ramachandra C G, Sunil Kumar M, A. Geetha Bhavani, Dikshit Sharma	
3	ICWTNS-2025_281	Lifetime Assessment of Novel Materials in High-Stress Environments				Budigi Prabhakar, A.KARTHIKEYAN, Mohamed Jaffar A, Mridula Gupta, Madhusudhan M, Ramachandran Thulasiram	

4	ICWTNS-2025_282	Uncovering the Stress Mechanism of Materials Under Dynamic Loading Conditions					Adarsha Harinaiha, Paul Praveen, Madhur Taneja, Sudhanshu Dev, V.K. BUPESH RAJA, Umesh Daivagna, Basavaraj Devakkir
5	ICWTNS-2025_283	Parameter Identification and Numerical Simulation for Improved Material Performance and Reliability					Pratibha Sharma, Prashanth S P, Sujai Selvarajan, Durga Prasad Yadav, ASHWIN JACOB
6	ICWTNS-2025_284	A Novel Approach to Improve Chemical Analysis Techniques for Advanced Materials Used in Structural Applications					Mohamed Jaffar A, ESHANTHINI.P, Prabhukumar Sellamuthu, Nagraj Patil, Geetha Bhavani5, Romil Jain
7	ICWTNS-2025_287	Characterization of Spinel-Based Inorganic Materials for High-Temperature Thermal Energy Storage					Anupam kumar Gautam, Nandakishora Y, Sikata Samantaray, Beemkumar Nagappan, Tanveer Ahmad Wani, Nittin Sharma
8	ICWTNS-2025_288	Analysis of the Effect of Polymer Chain Architecture on the Viscoelastic Properties of Polymer Blends					S. Sunitha, Shweta, Vimal Bibhu, Sasmeeta Tripathy, Sandeep V, Nittin Sharma, Lalit Khanna
9	ICWTNS-2025_289	Mechanical and Thermal Properties of Graphene-Polymer Nanocomposites Prepared using Solution Blending					Ajaya Kumar Behera, Sheetal, D Venkatesan, Mukesh Kumar Sharma, Mohsin Jamilahmed Dadi, Saksham Sood, Paramjit Baxi
10	ICWTNS-2025_290	Synthesis and Characterization of ZnO Nanorods for Photocatalysis and Sensing Applications					Imran Molvi, Tapaswinee Das, J Jesupriya, D.PRABU, Nivedan Mahato, Varun Ojha
TS-3 (C)	Session Chair(s)	Dr. Amlan Basu, Dept. of EEE, University of Strathclyde, Glasgow, UNITED KINGDOM					
10-May-2025, 02:00 PM to 04:00 PM Indian Time/ 10-May-2025, 03:30 AM to 05:30 AM Peru Time.							
S.No.	Paper ID	Title of Paper					Author (s)
1	ICWTNS-2025_291	Evaluation of Microstructural and Mechanical Properties of Metal Matrix Composites Reinforced with Nano- and Micro-sized Particles					Basant Kumar Das, Mehulkumar Mahendrabhai Gor, Debashis Dey, Raghunathan S, V SAMPATHKUMAR, Manisha Chandna, Ishika Soni
2	ICWTNS-2025_292	Development of a Novel Recycling Process for Rare Earth Metals from Waste Electronic Devices					R Suchithra, SATHISH S, Taniya Ghosh, Nirav Gandhi, Shakti Prakash Jena, Vivek Saraswat, Mukul Mishra
3	ICWTNS-2025_293	Relationship between Crystal Structure and Ionic Conductivity in Perovskite Oxide Solid Electrolytes for Solid-State Batteries					Swetarani Biswal, Veera Nagaiah Maddikayala, P MALLIGA, Manjur Ansari, Parth Gaud, Simranjeet Nanda
4	ICWTNS-2025_294	An improved analysis of Chemical and Physical Properties of Hybrid Inorganic-Organic Polymers for Biomedical Applications					Purvesh Patel, Tapaswinee Das, N Prabhakaran, S.KRISHNAKUMAR, Adarsha Rana, Amit Kumar, Neelesh Singh
5	ICWTNS-2025_296	Human-Computer Interaction and the Future of Industrial Applications in Thermal Sciences					R Suchithra, Mridula Gupta, Lalit Khanna, Sonia Riyat, Anjali Bhardwaj, Kuppala Saritha, G.Senthil kumar
6	ICWTNS-2025_297	A Comprehensive analysis of the Impact of Computer Interaction on Industrial Process Control and Optimization					Yogesh Jadhav, Madhur Taneja, Medikonda Swapna, T Bernatin, Richa Garg, R Suchithra
7	ICWTNS-2025_298	Advancements in Biomedical Applications of Human-Computer Interaction for Medical Experiments					Jyotirmaya sahuo, Parag Amin, Ansh Kataria, Paramjit Baxi, Harisha Naik TK, Kalpana K Raj, Sindu divakaran
8	ICWTNS-2025_300	Exploring the synergies between nature and architectural design: a thermodynamic perspective					NakulRamannaSanjeevaiah, v sampathkumar, Tanveer Ahmad Wani, Saroj Kumar Acharya, GirishKalele
9	ICWTNS-2025_301	The Role of Natural Materials in Modern Architecture and Design: A Biosciences Approach					Parag Amin, Shrishail B Anadinni, R Nirmala, Paul Praveen, Jajneswar Nanda, Mohit Gupta
10	ICWTNS-2025_302	Incorporating Biophilic Design in Urban Landscapes for Improved Environmental Sustainability					Tapaswinee Das, Hemal Thakker, Dayalan J, Devyani, Suraj Bhan, Rahul Thakur, Mithhil Arora


5	ICWTNS-2025_320	Efficiency analysis of heat transfer in oscillating flow with cylindrical heat exchangers				Satish Upadhyay, Imran Molvi, Ramachandran Thulasiram, Pavan Chaudhary, T Pushpalatha, Vaibhav Kaushik, Noopur Pandey
6	ICWTNS-2025_321	Investigation of heat transfer and pressure drop in turbulent flow through microchannels with dimpled walls				Lakshmi Narayana, Shashikant Patil, Mehulkumar Mahendrabhai Gor, Sujai Selvarajan, Intekhab Alam, Prakriti Kapoor
7	ICWTNS-2025_322	Thermodynamic optimization of a Rankine cycle for waste heat recovery in industrial processes				Rakesh Kumar Yadav, Mani Ramakrishnan, Satish Upadhyay, Dipesh Patel, Ramachandran Thulasiram, Tarang Bhatnagar
8	ICWTNS-2025_323	Analysis of heat transfer enhancement technique in microchannel heat exchangers using nanofluids				Jalpa Zalawadia, Beemkumar Nagappan, Neeraj Das, Preeti Gupta, Satish Upadhyay, Shriya Mahajan
9	ICWTNS-2025_324	Thermodynamics and fluid dynamics of jet impingement cooling in electronic device thermal management				Shashikant Patil, Krishnamraju Putta, Manjunath Channappagoudra, Rakesh Kumar Yadav, Dhanasingh B Rathod, Sahil Suri
10	ICWTNS-2025_325	Predicting thermal performance of high-speed turbulent boundary layers using data-driven technique				Arghya Das Dev, Satish Upadhyay, Swati Prajapati, Manjunath Channappagoudra, Intekhab Alam, Sumeet Kaur
TS-4 (B)	Session Chair(s)	DR. K. Manikanandan, VIT Vellore, India,				
10-May-2025, 04:00 PM to 06:00 PM Indian Time/ 10-May-2025, 05:30 AM to 07:30 AM Peru Time.						
S.No.	Paper ID	Title of Paper				Author (s)
1	ICWTNS-2025_327	An Integrated Approach to Data Mining and Process Management in Scientific Computing				Meharunnisa S.P, REVATHY S, Karthikeyan M P, Pratyashi Satapathy, Savita, Vivek Bongale, Mridula Gupta, Sourav Rampal
2	ICWTNS-2025_329	Improving Performance and Durability of PEM Fuel Cells through Coating Strategies				Usha Srikant, Sidhant Das, A.KARTHIKEYAN, Aravindan Munusamy Kalidhas, Rital Gajjar
3	ICWTNS-2025_330	Biomimetic Multicompartmental Biofuel Cells for Sustainable Energy Production				Santosh Kumar Singh, Peer Mohammed Jeelan, S USHA NANDHINI, Aravindan Munusamy Kalidhas, Kartik Pandya, Sourav Rampal
4	ICWTNS-2025_331	Novel Materials and Designs for Solid Oxide Fuel Cells Operating on Biofuels				K Vasudeven, Vivek Saraswat, Venkatesh H, Jatin Khurana, Beemkumar Nagappan, ANNAM RENITA A, Ashwini Kumar
5	ICWTNS-2025_332	Enhancing the Charge Transfer Kinetics in Lithium-Oxygen Batteries through Electrolyte Optimization				Sunil Kumar M, Falguni Tlajiya, Amit Prakash Sen, Simranjeet Nanda, Kavitha V, Tapaswinee Das, Bharat Bhushan, Rosita Kamala F
6	ICWTNS-2025_333	Electrochemical Double-Layer Capacitors with Carbon Nanomaterial-Based Electrodes for High Energy and Power Density				Suchithra, Rameshbabu A, Honganur Raju Manjunath, Ashish Shah, Amit Kumar
7	ICWTNS-2025_334	Efficient Hydrogen Production from Methanol over Pd-based Catalysts in Microfluidic Fuel Cells				SATHISH S, Alli A, Anoop Dev, Honganur Raju Manjunath, Md Irfan Ahmed, Girish Jadhav
8	ICWTNS-2025_335	Novel electrochemical capacitors for energy storage in renewable power systems				Frederick Sidney Correa, Yuvraj Parmar, Harisha Naik TK, T. KRITHIGA, Ramachandran Thulasiram, Keerti Rai, Binal Modi

9	ICWTNS-2025_336	Advanced Inorganic Redox-Flow Batteries for Large-Scale Energy Storage Applications				Sunil Kumar M, Siddharth Sriram, Bhavuk Samrat, N Kartik, S.Radhika, Anup Kumar, Ravi Kumar Paliwal, Neeraj Das
10	ICWTNS-2025_337	Nanocrystal-Based Electrodes for High-Performance Zinc-Ion Batteries				Anu Sukhdev, Sudhanshu Dev, Naveen Kumar Rajendran, Praveen Priyaranjan Nayak, Girish Jadhav, Siddharth Sriram
TS-4 (C)	Session Chair(s)	Dr. Vijay Arputharaj J, Department of Computer Science, CHRIST University, India				
10-May-2025, 04:00 PM to 06:00 PM Indian Time/ 10-May-2025, 05:30 AM to 07:30 AM Peru Time.						
S.No.	Paper ID	Title of Paper				Author (s)
1	ICWTNS-2025_338	Bio-electrochemical Remediation of Contaminated Soils and Groundwater				Uma Bhardwaj, Santhosh M B, Dushyanth V Babu, Satish Kumar Samal, Ashish Shah, Amritpal Sidhu
2	ICWTNS-2025_339	Flexible Supercapacitor Devices Based on Carbon Nanotube and Graphene Nanocomposites				Kartik Pandya, Shivam Khurana, Chaitanya Lakshmi G, Sorabh Sharma, Sarmistha Satrusallya, Ramachandran Thulasiram, Tanveer Ahmad Wani7
3	ICWTNS-2025_340	Design and Fabrication of Microbial Fuel Cells for Wastewater Treatment and Energy Generation				Romil Jain, Bhavan Kumar, Biswaranjan Swain, Kuldip Kumar Sahu, Geetha Bhavani, Beemkumar Nagappan, Suhas Gupta
4	ICWTNS-2025_341	Advances in Molecular-Level Understanding of Proton Exchange Membrane Fuel Cells				Mohamed Jaffar A, Anu Sukhdev, Sukhman Ghumman, Ashwini Kumar, Prateek Aggarwal, Budigi Prabhakar, Bhagyalaxmi Behera, Mr.Zion Ramdinthara
5	ICWTNS-2025_342	Novel Ionic Liquid Electrolytes for High-Performance Lithium-Sulfur Batteries				Budgie Prabhakar, Umesh Daivagna, Bhavya M B, Sunita Samantha, Pavan Chaudhary, Nitish Vashisht
6	ICWTNS-2025_343	Enzymatic Biosensors for Real-Time Monitoring of Biofuel Production Processes				Iftekhar Alam, Taren Kapoor, Lakeshia Swarup, Shashikala A R, Monalisa Mohanty, Sunil Thakur
7	ICWTNS-2025_344	Carbon Nanotube-Based Electrodes for Bio-electrochemical Sensors				Takamine Sahoo, Rakesh Kumar Yadav, Kala K U, Naresh Kaushik, Kanika Seth, Santhosh M B, Samika Goyal, Tanveer Ahmad Wani
8	ICWTNS-2025_345	Electrochemical Tuning of Surface Properties for Efficient Photocatalytic Water Splitting				Bhavya M B, Saundra Ku Mohanty, Ayyash Gandhi, Hitesh Kalra, Mohamed Jaffar A, B.P. Singh, Budgie Prabhakar
9	ICWTNS-2025_346	Investigating the efficiency and durability of bioelectrodes for microbial fuel cells in wastewater treatment				Umesh Daivagna, Bhavan Kumar, Aneesh Wunnava, Gaurav Shukla, Uma Bhardwaj, HRsmart Kandhari
10	ICWTNS-2025_347	Bioelectrodes for Electrochemical CO2 Reduction to Value-Added Chemicals				Geetha Bhavani, Rajesh Kumar Samala, Shashikala A R, Hemant Kumar Palo, Radula Gupta, Gunmen Ahluwalia, Pavan Chaudhary
TS-4 (D)	Session Chair(s)	Dr. V.Aravinda Rajan, Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, India				
10-May-2025, 04:00 PM to 06:00 PM Indian Time/ 10-May-2025, 05:30 AM to 07:30 AM Peru Time.						
S.No.	Paper ID	Title of Paper				Author (s)
1	ICWTNS-2025_516	Low-Complexity Signal Processing scheme for Frequency-Domain Equalization in Wireless Communication				Trapty Agarwal, Hannah Jessie Rani R, Mitul Patel, Santanu Kumar Sahoo, Naresh Kaushik, T Ravi, Rosita Kamala F, Astik Kumar Pradhan

2	ICWTNS-2025_517	Improved in Signal Processing framework for Mitigating Interference in 6G Wireless Networks	Bharat Jyoti Ranjan Sahu, Ankita Thakur, Raghu N, Hardik Patel, Arvind Kumar Pandey
3	ICWTNS-2025_518	Efficient parallel processing for large-scale adaptive filtering in wireless sensor networks	Peer Mohammed Jeelan, Tirumala Vasu Galithoti, Mayank Deep Khare, Nandhitha N M, Hardik Patel, Vinay Kumar Sadolalu Boregowda
4	ICWTNS-2025_519	Real-time Control of Autonomous Vehicle Navigation using Visual Data Processing	Pandian R, Venkatesh H, Samreen Fiza, Yaduvir Singh, Ezhilarasan Ganesan, Abhishek Upadhyay, Teena Vats
5	ICWTNS-2025_520	Robust Filtering of Noisy Sensors for Accurate Signal Processing in Embedded Systems	Ashutosh Kumar Singh, Poonguzhali S, Rosita Kamala F, K Bhanu Rekha, Ramji Gupta, Mamatha G N, Ankita Thakur, Amit Kumar Shrivastav
6	ICWTNS-2025_521	Robust Filtering of Noisy Sensors for Accurate Signal Processing in Embedded Systems	Safinaz S, Vijay Kumar Pandey, Rajasekar.B, Jitha Janardhanan, Santanu Kumar Sahoo
7	ICWTNS-2025_522	Sparse Signal Reconstruction using Joint Matrix Factorization and Total Variation Minimization	Veera Nagaiah Maddikayala, Kalyandurg Rafeeq Ahmed, Raju, Sahaya Anselin Nisha A, Pushparajesh V5, Mitul Patel
8	ICWTNS-2025_524	Plant Species Identification Using Machine Learning	Bikesh Kumar, Gaurav Raj, Aanchal, Mohd Faiz, Saakar Munjial, Ajay Pal Singh
9	ICWTNS-2025_526	A Comparison of Automated Human Identification Face Detection Techniques	Aryan raj, Khushi chaudhary
10	ICWTNS-2025_527	Deep Learning for Medical Imaging Analysis : Detection and Diagnosis	Apurva Bhau, Er Aparna, Mayank Mishra, Er Disha Sharma