

Welcome Message – ICAT21’2025

It is our great pleasure to welcome you to the 2025 Edition of the International Conference on Advanced Technologies and Interdisciplinary Innovation (ICAT21’2025), held on December 25–26, 2025, at the Higher School of Technology of Fez, Morocco.

ICAT21’2025 is an international scientific event designed to bring together experts, researchers, and professionals from various disciplines to explore cutting-edge technological advancements and foster interdisciplinary innovation. The conference focuses on key fields such as electrical engineering, mechanical and industrial engineering, logistics and supply chain management, process engineering, and materials science, with a particular emphasis on the transformative contribution of Artificial Intelligence in these areas.

The main themes of this edition include Energy and Electrical Smart Systems, Logistics and Supply Chain Management, Mechanical and Industrial Engineering, Process Engineering, and Physics-Informed Scientific Machine Learning. These topics highlight the growing need for synergy between engineering sciences, intelligent systems, and data-driven methodologies to address complex industrial and environmental challenges.

ICAT21’2025 provides an exceptional platform for exchanging scientific results, sharing innovative research findings, and forging new academic and industrial partnerships. Participants from diverse backgrounds will have the opportunity to engage in rich discussions, explore interdisciplinary approaches, and contribute to shaping the future of advanced technologies.

This conference owes its success to the dedication and hard work of all stakeholders: the Organizing Committee, the Technical Program Committee, keynote and invited speakers, reviewers, and all contributing authors and participants. We extend our sincere gratitude to each of them for their commitment and support.

We hope you enjoy your experience at ICAT21’2025, benefit from fruitful discussions, and take part in building lasting collaborations. We look forward to meeting you all and to witnessing the innovative contributions that will emerge from this year’s edition.

General Chairs



Pr. Aziz DEROUICH

Deputy Director of Scientific Research
 and Cooperation
 Higher School of Technology of Fez




Pr. Said BOUTAHARI

Director of the Industrial Technologies
 and Services Laboratory
 Higher School of Technology of Fez



Committees

Honorary Committee

Pr. Mustapha IJJAALI: President of Sidi Mohamed Ben Abdellah University of Fez – Morocco

Pr. Mohammed KARIM: Director of the Higher School of Technology of Fez - Morocco

General Chairs

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Said BOUTAHARI, Higher School of Technology – FEZ, Morocco

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Mohammed CHAMCHAM, Higher School of Technology – FEZ, Morocco

Mohammed EI GHZAQUI, Faculty of Sciences Dhar El Mahrez of Fez, Morocco

PROGRAM

Thursday, December 25, 2025 (GMT+1)

08h30 **Welcoming Participants**

Official Opening of the International Conference on Advanced Technologies and Interdisciplinary Innovation (ICAT21'2025)

- Moderator: Chaimae EL KOUFI- AgriTech Ecosystem | Green OpenLab
 - Link of the Session: <https://meet.google.com/jtu-fuoz-eda>
- 09h00
à
10h00
- Pr. Mustapha IJJAALI:** President of Sidi Mohamed Ben Abdellah University of Fez – Morocco
Pr. Mohammed KARIM: Director of the Higher School of Technology of Fez – Morocco
Pr. Aziz DEROUICH: ICAT21'2025 Chair, EST of Fez – Morocco
Pr. Said BOUTAHARI: ICAT21'2025 Chair, EST of Fez – Morocco

Plenary Session 1: In Person & Online

- 10h00
à
10h45
- Moderator: **Pr. Chakib ALAOUI** (Euro-Mediterranean University of Fez, Morocco)
 - Link of the Session: <https://meet.google.com/jtu-fuoz-eda>
 - Speaker: **Pr. Moussa LABBADI** (Aix-Marseille University, France)
“On the Control of Drones: From Theory to Practice”

10h45 **Networking & Coffee Break**

Plenary Session 2: Online

- 11h00
à
11h45
- Moderator: **Pr. Chakib ALAOUI** (Euro-Mediterranean University of Fez, Morocco)
 - Link of the Session: <https://meet.google.com/avs-cuwe-wyk>
 - Speaker: **Pr. Sanjeevikumar PADMANABAN** (University of South-Eastern Norway)
“AI-Inspired Renewable Smart Power Electronics Applications”

Oral Session: In Person

- 11h45
à
13h15
- Oral Session P-1: Energy and Electrical Smart Systems
 - Oral Session P-2: Logistics and Supply Chain Management
 - Oral Session P-3: Mechanical and Industrial Engineering & Scientific Machine Learning

13h15 **Networking & Coffee Break**

Plenary Session 3: In Person & Online

- 14h30
à
15h15
- Moderators: **Pr. Mohammed Reda BENBRAHIM** & **Pr. Jabir ARIF** (EST of Fez – Morocco)
 - Link of the Session: <https://meet.google.com/ubm-tmtz-osm>
 - Speaker: **Pr. Hamid EL MRABET** (Sopra Steria Group - France)
“AI Applied to Industrial Processes: Optimization, Predictivity and Sustainability”
-

PROGRAM

Thursday, December 25, 2025 (GMT+1)

Plenary Session 4: Online

15h15
à
16h00

- Moderator: **Pr. Chakib ALAOUI** (Euro-Mediterranean University of Fez, Morocco)
- Link of the Session: <https://meet.google.com/ubm-tmtz-osm>
- Speaker: **Pr. Ghulam E. Mustafa ABRO** (KFUPM, Saudi Arabia)
“Bridging Precision and Speed: Multi-Model Predictive Control for Real-Time Attitude Control for Quadrotor Drones”

16h00 **Networking & Coffee Break**

Oral Session: In Person & Online

16h30
à
18h30

- Oral Session P-4: Process Engineering
- Oral Session O-1: Energy and Electrical Smart Systems
- Oral Session O-2 (Online) : Scientific Machine Learning

Friday, December 26, 2025 (GMT+1)

Plenary Session 5: In Person & Online

09h00
à
10h30

- Moderator: **Pr. Moussa LABBADI** (Aix-Marseille University, France)
- Link of the Session: <https://meet.google.com/cyf-jmda-sbc>
- Speaker: **Pr. Amine ALLOUHI** (Higher School of Technology of Fez – Morocco)
“Integrated Multi-Objective Optimization and Decision-Making for High-Performance, Energy-Efficient Buildings”

Plenary Session 6: Online

- Moderator: **Pr. Ahmed Hussein Mahmoud DARALSEDA** (An-Najah National University, Palestine)
- Link of the Session: <https://meet.google.com/cyf-jmda-sbc>
- Speaker: **Pr. Youssef Abdelaziz ALMOATAZ** (Ain Shams University - Egypt)
“Recent Research Directions in Electrical Power Systems”

10h30 **Coffee Break**

Oral Session: Online

11h00
à
13h00

- Oral Session O-3: Logistics and Supply Chain Management & Engineering Science
- Oral Session O-4: Energy and Electrical Smart Systems
- Oral Session O-5: Scientific Machine Learning

14h00 **Lunch Break**

15h00 **Closing of the Conference: Round Table and Launch of the ICAT21-2nd Edition**

Speakers



Pr. Moussa LABBADI

Moussa LABBADI is an Associate Professor (MCF) at Aix-Marseille University and a researcher at the Laboratoire d'Informatique et Systèmes (LIS). His research interests lie in control theory and its applications, with a particular focus on multistable systems, finite-time and fixed-time stability, accelerated convergence techniques, and the control and observation of systems governed by partial differential equations. His work finds applications in areas such as drones, robotics, and avionics. He has authored more than 100 scientific publications and has an h-index of 22. He currently serves as an Associate Editor for IEEE Transactions on Automation Science and Engineering and is involved in the organization of major control conferences, including IFAC World Congress 2026 (Control Design) and the IEEE Conference on Control Technology and Applications (CCTA). He has held visiting research positions at INRIA Lille, the University of Birmingham, and the Max Planck Institute for Software Systems, hosted by Denis Efimov, Sadegh Soudjani, and Rupak Majumdar.

Further information is available on his Google Scholar profile:
 (<https://scholar.google.com/citations?hl=fr&user=Nodhw0AAAAJ>).



Pr. Amine ALLOUHI

Amine ALLOUHI is an Associate Professor of Energy Engineering and Sustainability at Sidi Mohamed Ben Abdellah University in Fez.

He specializes in renewable energy systems, energy efficiency, and sustainable technologies. His academic path includes advanced training in energy engineering and extensive research experience. Amine's work covers solar thermal systems, photovoltaic technologies, energy storage, and building energy performance.

He has led and contributed to several national and international research and development projects.

Amine collaborates with universities and research groups across multiple countries.

He is an active reviewer for reputable journals in energy and sustainability.

Committed to innovation and education, he works to bridge scientific research with practical energy solutions.



Pr. Sanjeevikumar PADMANABAN

Sanjeevikumar Padmanaban (Member'12–Senior Member'15, IEEE) received a Ph.D. in electrical engineering from the University of Bologna, Bologna, Italy, in 2012. He is a Full Professor in Electrical Power Engineering at the Department of Electrical Engineering, Information Technology, and Cybernetics, University of South-Eastern Norway, Norway. S. Padmanaban has authored over 750+ scientific papers and received the Best Paper cum Most Excellent Research Paper Award from IET-SEISCON'13, IET-CEAT'16, IEEE-EECSI'19, IEEE-CENCON'19, and five best paper awards from ETAEERE'16 sponsored by Lecture Notes in Electrical Engineering, Springer book. He is a Fellow of the Institution of Engineers, India, the Institution of Electronics and Telecommunication Engineers, India, and the Institution of Engineering and Technology, U.K., and a Fellow of the European Academy of Sciences (Belgium). He received a Lifetime Achievement Award from Marquis Who's Who – USA 2017 for his contributions to power electronics and renewable energy research. He is listed among the world's top 2 scientists (from 2019) by Stanford University, USA. He received the IEEE Systems Council Outstanding Service Award 2025 for his contributions to visionary leadership and outstanding service to the IEEE Systems Council through transformative educational initiatives and global outreach. Also, he received the IEEE Bozenna Pasik-Duncan Humanitarian Mentorship Award 2025 for his mentorship that extends beyond professional excellence, making a human impact by spearheading inclusion, empathy, and opportunity across global technical communities.

He is an Editor/Associate Editor/Editorial Board member for refereed journals, in particular the IEEE SYSTEMS JOURNAL, IEEE Transactions on Industry Applications, IEEE ACCESS, IET Power Electronics, IET Electronics Letters, and Wiley-International Transactions on Electrical Energy Systems. Subject Editorial Board Member—Energy Sources—Energies Journal, MDPI, and the Subject Editor for the IET Renewable Power Generation, IET Generation, Transmission and Distribution, and FACETS Journal (Canada).



Pr. Hamid EL MRABET

Hamid El Mrabet is an engineer graduated from INSA Lyon and holds a PhD in Artificial Intelligence from INRIA. With more than 33 years of experience at Sopra Steria Group, he is an expert in generative AI, predictive AI, industrial optimization, software quality, and sustainable digital transformation.

As an international speaker, he regularly works with companies, universities, and public institutions in France and Morocco. Originally from Taounate, he is leading an innovative organic and educational farm project that integrates smart technologies and agroecology.



Mr. Ghulam E. Mustafa ABRO

Ghulam E. Mustafa Abro is a Senior Member of IEEE and a Distinguished Academician and Researcher. He was awarded the Late Prof. Peter B. Luh Memorial Young Research Award in September 2024 for his work in robotics and control at IEEE CASE 2024 in Bari, Italy. He is currently an Academic Affiliate with the Aerospace Engineering Department, KFUPM, Saudi Arabia; and a Postdoctoral Fellow Researcher with the Interdisciplinary Research Centre for Aviation and Space Exploration (ranked QS Top 67th in Engineering and Technology). His work encompasses the study of mechatronic systems, including dynamics, control, prototyping, and stabilisation. He has over nine years of experience in teaching and research. Furthermore, he has made significant contributions to real-world autonomous solutions via swarm intelligence and multi-agent-based solutions, and robotic motion planning, autonomous systems, and AI-driven perception. During the Research Award Ceremony held in August 2025 at the Centre for Aviation and Space Exploration KFUPM, Saudi Arabia, he received the Best Research Excellence Award for his robotics and control research from Pr. Charles Elachi, a Distinguished Professor at Caltech University, United States and the former Director of the Jet Propulsion Laboratory (JPL), NASA.



Mr. Youssef Abdelaziz ALMOATAZ

Almoataz Youssef Abdelaziz is a distinguished Egyptian scholar in the field of Electrical Engineering, specializing in Electrical Power and Machines. Born on September 14, 1963, in Cairo, Egypt, he has built a long and impactful academic career marked by excellence, dedication, and international collaboration. He obtained his B.Sc. in Electrical Engineering from the Faculty of Engineering at Ain Shams University in 1985, graduating first in a cohort of 180 students with an overall “Excellent” grade. He continued at the same institution to earn his M.Sc. in 1990, focusing on pattern recognition techniques for out-of-step protection in electrical power systems.

In 1996, Professor Abdelaziz received his Ph.D. in Electrical Engineering from Ain Shams University, conducting part of his research at Brunel University in England under joint supervision. His doctoral work explored the application of artificial neural networks in adaptive protection and out-of-step relaying—an area in which he later became widely recognized.

Currently serving at the Faculty of Engineering, Ain Shams University, he has established himself as a leading researcher in artificial intelligence applications in electrical power systems and renewable energy, as well as in modern optimization techniques for power system operation, planning, and control. Professor Abdelaziz has contributed extensively to scientific literature and is active within several major academic and research platforms including Scopus, ORCID, Web of Science, Google Scholar, and ResearchGate. Throughout his career, he has demonstrated unwavering commitment to advancing power system technologies, mentoring young engineers, and promoting innovation within the energy sector.

Detailed Program

Oral Session P-1 (In Person)	Energy and Electrical Smart Systems Thursday, December 25, 2025 11h15-13h00 Conference room
Moderators	Mohammed EI GHZAOUI (FSDM- Fez, Morocco), Jawad LAMTERKATI (EST-Casablanca, Morocco), Youness EL MOURABIT (EST – Fez, Morocco) Organizing Committee Logistics Representative: Omar BOUALAM
73	Houssam ECH-CHAOUY, Aziz DEROUICH, Said MAHFOUD "Optimization of DTC performance through the backstepping approach applied to the cage rotor asynchronous machine"
163	Abderrahman EL IDRISSE, Aziz DEROUICH, Said MAHFOUD, Najib EL OUANJLI, Soumya LAAOUJ, Ahmed CHANTOUFI "Inner ring fault bearing diagnosis in induction motor by stator current envelope analysis"
176	Mohammed ES-SALMI, Mohammed TAOUSSI, Abdelfatah EL OUADIKI "Optimization of PI Controller Parameters Using Genetic Algorithms for Enhanced Energy Efficiency in DFIG-Based Wind Turbines"
179	Hiba CHAKIR, Farid ABDI, Fouad Mohammed ABOU "Physics-Informed Neural Network Simulation of Qubit Dynamics under Noisy Quantum Channels via the Lindblad Equation"
182	Abdelfatah EL OUADIKI, Mohammed TAOUSSI, Mohammed ES-SALMI "Robust control for MPPT optimization of a DFIG generator under a real wind profile"
200	Ahmed CHANTOUFI, Aziz DEROUICH, Najib EL OUANJLI, Said MAHFOUD, Abderrahman EL IDRISSE, Houssam ECH-CHAOUY "Robustness of Fuzzy Logic Based DTC for DFIMs in Electric Vehicle Traction under Road Slope and Wind Speed Disturbances"

Oral Session P-2 (In Person)	Logistics and Supply Chain Management Thursday, December 25, 2025 11h15-13h00 Room: C01
Moderators	Fouad JAWAB, Jabir ARIF, Imane MOUFAD (EST- Fez, Morocco) Organizing Committee Logistics Representative: Azari MERIEM
46	Achraf BAGHDAD, Abderrahmane OUDDASSER; Najoua FELLAHI "From Lean Management to Hospital Supply Chain Performance: Thematic Dynamics and Lessons from CHU Hassan II, Fez, Morocco"
83	Jihad MKHALFI, Fouad JAWAB, Imane MOUFAD "Hybrid AI Framework for Energy-Efficient Last-Mile Delivery in Urban Areas: A PRISMA-Based Systematic Review"
131	Molk OUKILI GARTI, Jabir ARIF, Fouad JAWAB "Bridging Theory and Practice: A Systematic Review on Circular Logistics and Industry 5.0 for Sustainable Supply Chains"
195	Lahcen KANDSI, Arif JABIR, Fouad JAWAB "AI-Driven Real-Time Synchronization: Optimizing Logistics Resilience and Financial Performance"
237	Mohammed CHAMCHAM, Abderrazzak LAMRISS "Modeling and Simulation of Transportation Systems: From theory to practice"
244	Najoua FELLAHI, Zakia ERRABIH "Digitalization at the service of organizational resilience: an empirical study among automotive firms in the Fez-Meknes region, Morocco"

Oral Session P-3 (In Person)	Mechanical and Industrial Engineering - Scientific Machine Learning Thursday, December 25, 2025 11h15-13h00 Room: C02
Moderators	Mohamed RAMADANY , (FST- Fez, Morocco), Mouhssine CHAHBOUNI (EST- Fez, Morocco), Badreddine EL GOUMI (EST- Fez, Morocco) Organizing Committee Logistics Representative: Hassna SALIME
77	Ikram KABBOURI, Anass EL-QEMARY, Mouhssine CHAHBOUNI, Said BOUTAHARI, Ahmed OUEZGAN "Numerical study of the influence of geometric deviations from the FDM process on coaxiality tolerance"
84	Anass EL-QEMARY, Ikram KABBOURI, Hamid HENNANE, Said BOUTAHARI, Mouhssine CHAHBOUNI "Metrological Characterization of Cylindrical Parts in Additive Manufacturing: Quantification of Coaxiality Deviation"
89	Abdellah EL OMARI, Aissa OUBALLOUCH, Mohammed NASSRAOUI "High-Accuracy Surface Roughness Prediction of FDM-Printed PETG using an Artificial Neural Network"
175	Abdelghani ELJIHAD, Ahmed OUEZGAN; Mehdi Amine NAJI; Mouhssine CHAHBOUNI Analysis and optimization of additive manufacturing parameters in PLA lattice structures
36	Nour-Eddine SENNAN, A. El Hamli, A. Moussa "Enhancing Monte Carlo Simulation Accuracy Through Deep Learning: An Advanced Framework for Predicting Optimal Beam Parameters"
174	Youssef Talambouti, Anas BOUAYAD, Zakaria ALJ, Khalid FARDOUSSE "Comparative Approach to Dropout Prediction in MOOCs Using Deep Learning"

Oral Session P-4 (In Person)	Process Engineering Thursday, December 25, 2025 16h30-18h30 Conference room
Moderators	Mounir OUREMCHI (EST- Fez, Morocco), Othmane ZAMZOM (EST – Tetouan, Morocco), Abdelhamid BOU-EL-HARMEI (EST-Fez, Morocco) Organizing Committee Logistics Representative: Salaheddine TALHA
87	Chahid AHABCHANE, Chahid AHABCHANE, Safa ELKEFI Dynamics of Patient Flow under low acuity rerouting: an agent-based prototype for a digital twin of an emergency department in Canada
94	Aicha ALAOUA, Mohammed KARIM "A Lightweight Physics-Informed Approach for Enhancing Resilience in Small-Scale Smart Manufacturing Systems"
166	Nouhaila DRIF, Wiam AYRIR, Ahmed AIT ERROUHI, Driss BENHADDOU "Data-Driven Classroom Occupancy Modeling Using QR-Based Attendance Records"
167	Hind EL HAFIDI, Lahoucine ID-KHAJINE, Ahmed ABOU "Modeling and Real-Time Simulation of PEM Electrolyzer Plant Model for Digital Twin Applications"
193	Assaad EL MAKHLOUFI, Abdelhamid BOU-EL-HARMEI, Mounir OUREMCHI, Samir EL ADIB, Naoufal RAISSOUNI "Pipelined FPGA Architecture for LST Split-Window Algorithm with Optimized Hardware Resource Usage"
202	Asmae AISSAOUI, Ismail CHERGUI; Sara RAMDANI; Soukaina EL FAYQ; Meriyem CHERGUI; Faiq GMIRA; Mohamed EL KAMILI; Intissar HADDIYA; Mohammed OUZZIF "AI-driven solutions in kidney disease management: a systematic literature review"
240	Kaoutar LAAZAAR, Nouredine BOUTAMMACHTE "Numerical Design and Optimization of a Medium Temperature Difference Gamma Stirling Engine For Power Generation Based On renewable energy"

Oral Session O-3 (Online)	Logistics and Supply Chain Management & Engineering Science Friday, December 26, 2025 11h00-13h00 Room: Conference room
Meet Link	https://meet.google.com/jpv-nwos-rom
Moderators	Jabir ARIF (EST- Fez, Morocco), Imane MOUFAD (EST- Fez, Morocco), Assaad EL MAKHLOUFI (EST- Fez, Morocco) Organizing Committee Logistics Representative: Soumya LAAOUJ
8	Ibrahim ROUIDI, Driss SERROU, Smail LAGRAT "Proposition of a new intelligent industrial logistics performance measurement model in Industry 4.0 companies"
44	Omar MIMOUH, Brahim HERROU "Real-time degradation monitoring and prognosis of ball mill liners using a physics-informed digital twin"
92	Oujamaa ABDELLAH, Abdelwahed ECHCHATBI, Adil RIZKI, Achraf TOUIL "Methodology for Conducting a Megaproject in a Smart City Using MBSE"
100	Prasanth TIRUMALASETTY "AI-Enhanced Predictive Analytics for Quality System Regulation (QSR) Compliance and Defect Minimization in Medical Device Production"
27	Mahaning INDRAWATY WIJAYA, Ali GUNAWAN, Richard WIPUTRA "Smart Warehouse Management for SMEs: A Low-Code Digital Transformation Approach"
56	Arunkumar THIRUNAGALINGAM "Generative AI-Enabled Master Data Management for Finance and Enterprise Governance Systems"
86	Anuj MAHESHWARI , Pranav PATIL "A Deployable ML-OR Framework of Stockout Risk, Replenishment, and Route Planning in Agro-Input Distribution"

Oral Session O-4 (Online)	Energy and Electrical Smart Systems Friday, December 26, 2025 11h00-13h00 Room : C01
Meet Link	https://meet.google.com/ymu-qyxw-bjz
Moderators	Mohammed TAOUSSI (EST-Meknes, Morocco), Aboubakr EL HAMMOUMI (EST- Tetouan, Morocco), Abdelilah CHALH (FST-Mohammadia, Morocco) Organizing Committee Logistics Representative: Asmae ZAFIT
12	Rachida HACHACHE, Antonio GRILO, Abdelaali CHAOUB, Hugo MORAIS, Brahim LAKSSIR "Energy Time Series Load Forecasting in Smart Grids Using Transformers"
26	Mohamed BOUSLA, Ali HADDI Enhancing Wind Energy Forecast Accuracy through Weibull Parameter Optimization: A Real Case from Tangier, Morocco
93	Jaafar AHADAD, Hicham BEHJA; Hammadi LAGHRIDAT Khadija BIHICHE; Hicham MEDROMI Robust PI Control Design for Pneumatic Compression Therapy Based on System Identification and IMC Tuning
115	Md.Mahafuzur RAHMAN MITUL, Md Nur Ahmad, Fahad RAIHAN SAQUIB, Afran Hossan REAZ, Kalyan MONDOL, Mst. Soniya AKTER Design and Implementation of a Robotic Arm for Automated Swab Collection in PCR Testing
173	Mohamed KAROM, Zakia HASNAOUI, Meryem YAHYAUI, Abdellah KADAUI, Chaieb EL BEKKAYE, Abdelouahad TAHANI "A Comprehensive Regression Framework for Photovoltaic Systems: From Data Analysis to Real-Time Notifications"
178	Rania HAJJI, Abdelhafid MESSAOUDI, Aziz ABDELHAK, Saloua YAHYAUI "Modeling of degradation phenomena in photovoltaic modules"
196	Ameur EL JELJAL-Mounir OUREMCHI-Karim EL KHADIRI-Moulhime EL BEKKALI "Beer-Lambert Law-Based Optical Biosensor Simulation for PSA Detection Using 45nm"

CMOS Technology”

Oral Session O-5 (Online)	Scientific Machine Learning Friday, December 26, 2025 11h00-13h00 Room: C02
Meet Link	https://meet.google.com/whj-hmrm-xfr
Moderators	Anass BAKOURI (Euro-Med- Fez, Morocco), Najib EL OUANJLI (EST-Meknes, Morocco), Badreddine EL GOUMI (EST – FEz, Morocco) Organizing Committee Logistics Representative: Ahmed CHANTOUFI
66	Anouar CHAHBOUNI, Khaoula EL MANAA, Rachid EL ALAMI “Edge AI: Evaluating Dynamic-Pruned CNNs and Transfer-Learning Transformers”
91	Vladimir HRISTOV, Aykut ISMAILOV; Krishan KUMAR “Examining Xiaomi CyberDog 2 as an Open-Initiated Educational Project for Robotics and AI: From Consumer Robotics to Research”
162	Mohamed Ali FAKRI, Rachid BEN SAID, Abdellah NAJID, Nezha EL IDRISSE “Deep Learning Fusion Model with CNN and LSTM for Network Traffic Anomaly Detection”
204	Oumaima LAMAAMAR “A Review of the Embedded Deployment of Sign Language Detection Models: Metrics, Tradeoffs and Perspectives”
206	Mohammed INAJJAR, Mohammed NAHID, Hamid BOUYGHF “Mobile Computing and Processing For Big Medical Data”
111	Vladimir HRISTOV, Aykut ISMAILOV, Krishan KUMAR “Comparative Analysis of Machine Learning Models for Image Recognition in Dynamic Environments: Application in a Cyber-Physical Guide Dog Model”
121	Mehdi MOUCHARRAF, Mohammed RIDOUANI, Fatima SALAHADINE, Naima KAABOUCH “Ensemble Learning Model for Robust Intrusion Detection in IoT Networks”

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INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGIES AND INTERDISCIPLINARY INNOVATION (ICAT21'25)

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The scope of the conference includes industrial application systems, electrical engineering, mechanical engineering, logistics, and materials science, with a particular emphasis on the role of Artificial Intelligence in transforming these domains.

We will be honored to host you at this scientific event

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PARTNERS

25-26
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INVITATION

<https://www.icat2i.com>