International Conference on AI, IoT, Embedded Technologies & Sustainable Energy(AITEC'2024)
including the 6th Winter school of technology

MONASTIR-TUNISIA, DECEMBER, 23-24-25-26, 2024

Presentation
Overview

Welcome to The International Conference on AI, IoT, Embedded Technologies & Sustainable Energy, including the 6th Winter School of Technology. This prestigious event brings together researchers, practitioners, and industry experts to explore the latest advancements and innovations in these rapidly evolving fields. Join us for an enriching experience filled with insightful presentations, hands-on workshops, and invaluable networking opportunities.

Honorary General Chairs
Kamel Charrada, Tunisia
Mohamed Ouzzane, Canada

Training chairs
Rafik M'nassri, Tunisia
Radhouane Laajimi, Tunisia
Walid Ben Mabrouk, Tunisia

General chairs
Mohamed Mosbah, France
Mostapha Mimouni, Maroc

Organizing chairs
Mounir Zrigui, Tunisia
Ali Newaz Bahar, Canada
Samiha Ben Mabrouk, United States
Badache Messaoud, Canada

Program chairs
Mahmoud Bady, Saoudi Arabia
Walid Hassen, Tunisia
Sami Ghdira, Tunisia
Kawther Laajimi, France

Publication chairs
Nesrine Ben Afia, France
Ilyes kooli, Tunisia
Mohsen Maraoui, Tunisia
Mehdi Rahmani, Tunisia

Publicity chairs
Ahmed Ben Elghazi, Maroc
Mohamed Khlifi, Saoudi Arabia
Soufien Gdaim, Tunisia
Abdeaziz Zaidi, Tunisia

Event Schedule

Days 1- 2 Technical Sessions
In the first two days, Technical Sessions will be hosted where scientific papers will be presented by participants. This will be recognized as a fantastic opportunity for research to be shared, feedback to be received, and stimulating discussions to be engaged in with peers and experts in the field.

Days 3 - 4 Training Sessions
The following two days will be dedicated to Training Sessions, where four comprehensive workshops will be conducted to deepen knowledge and enhance skills. (The workshops will be conducted in French)

Workshop 1 Artificial Intelligence for research Through hands-on sessions and practical examples, AI tools and techniques will be learned by researchers to enhance their research methodologies, analyze complex data sets, and drive innovative discoveries. Valuable insights will be provided to both novice and experts for integrating AI into their research to achieve impactful results.

Workshop 2 AI with Embedded Systems The integration of AI and IoT technologies with embedded systems will be discovered, with practical experience gained through project-based learning and collaborative exercises.

Workshop 3 Industry 4.0 The transformative impact of Industry 4.0 will be explored, with a focus on smart manufacturing, automation, and digitalization. Discussions on the latest trends, technologies, and case studies in the industry will be engaged in.

Workshop 4 Photovoltaic Sizing and design The art and science of sizing photovoltaic systems will be mastered. Fundamentals knowledge of solar energy, the main components of PV systems, and the reliable methodologies for accurately sizing systems to meet various energy needs will be covered. Practical exercises and simulations will be engaged in to apply this knowledge to real-world scenarios.

Importatnt dates

Submission site opening July 20th, 2024	Papers and abstracts submission deadline October 25th, 2024	Acceptance notification November 5th, 2024	Camera Ready paper and registration deadline November 20th, 2024

Workshops

Artificial Intelligence for research	AI with embedded systems	Industry 4.0	Photovoltaic Sizing

Topics

Artificial Intelligence
Applications of artificial intelligence in healthcare and medicine, Advanced machine learning and deep learning techniques, AI for predictive analytics and decision-making, Ethical and regulatory aspects of artificial intelligence, Natural language processing and understanding, Computer vision and image recognition, Reinforcement learning and autonomous systems, AI-driven robotics and automation

Internet of Things
IoT architectures and platforms, Security and privacy in IoT networks, Integration of IoT in smart urban environments, IoT applications in agriculture and environmental monitoring, Edge computing and fog computing for IoT, IoT sensors and actuators, IoT for healthcare and assisted living, Industrial IoT (IIoT) and Industry 4.0 applications, IoT standards and interoperability, Energy-efficient IoT solutions

Embedded Technologies
Low-power embedded system design and development, Embedded systems for automotive and intelligent transportation, Embedded systems in wearable technology and smart devices, Real-time operating systems for embedded applications, Hardware/software co-design for embedded systems, Embedded systems for consumer electronics and mobile devices, FPGA and ASIC design methodologies, Embedded AI and machine learning algorithms, Cyberphysical systems and embedded control, Embedded systems security and trustworthiness

Sustainable Energy
Renewable energy systems and environmental sustainability, Smart grid technologies and intelligent energy management, Geothermal Energy, Wind energy, Photovoltaic, Thermal solar energy, Advanced energy storage systems and management, Energy efficient buildings and smart home technologies, Electric vehicles and infrastructure, Grid integration of renewable energy sources, Energy harvesting and wireless power transfer, Sustainable manufacturing and green technologies, Energy efficient data centers and cloud computing

POLYTECH MONASTIR · ADIT · TANIT