

IMPORTANT DATES

Full Paper Submission Date: August 6, 2024

Review Notification: September 15, 2024

Camera-ready Final Paper Submission Date: September 30, 2024

Early registration: October 15, 2024

PAPER SUBMISSION

The **IEEE International Humanitarian Technologies Conference (IEEE IHTC)** is an interdisciplinary conference series organized by IEEE Region 8 (Africa, Europe, and the Middle East), IEEE Region 7 (Canada), and IEEE Region 9 (Latin America and the Caribbean).

Stakeholders from the public, private, education and research, and societal sectors around the world are invited to submit their contributions focused on showcasing challenges, success stories, lessons learned, case studies, and technological innovation related to achieving the United Nations' Sustainable Development Goals (SDGs), ICT4D, and the application of Humanitarian Technologies (including Disaster Relief and Disaster Recovery).

We invite authors to submit high-quality full papers reporting original and novel research results on all the above topics. Papers should be written in English, unpublished, and not submitted elsewhere. Full papers must be formatted as the standard IEEE double-column template (word, latex). A maximum of 7 pages are allowed for each paper, including all illustrations and references.

All submissions will undergo a Plagiarism and Al Utilization Check before being assigned for blind peer review by members of the Technical Program Committee (TPC).

Accepted papers will be published in the IEEE IHTC 2024 Conference Proceedings. Full papers presented and discussed orally will be submitted for inclusion in the *IEEE Xplore Digital Library*. After the conference, the Program committee can select the best papers for further review to be published in the IAS periodicals. The limit is 20% of the presented papers.

Committee Members

Honorary Chair: Vincenzo Piuri, *Region 8 Director 2023-2024*

Conference General Chair: Massimo La Scala, *Politecnico di Bari, Italy*

Technical Program Chairs:

Nikos Hatziargyriou, National Technical University of Athens, Greece João Peças Lopes, FEUP, Universidade do Porto, Portugal

Steering Committee:

Usman Munawar, R7 Conference Committee Chair Tiziana Tambosso, R8 Conference Committee Chair Fabrício Braga Soares de Carvalho, R9 Conference Committee Chair Magdalena Salazar Palma, IEEE Humanitarian Technologies Board (HTB)

Advisory Committee:

Massimo La Scala, *IHTC 2024 General Chair* Theodoros Panagiotis Chatzinikolaou, *R8 HuAC Chair* Augusto Herrera, *R9 HuAC Chair* Saida Maaroufi, *R7 HuAC Chair* Carlos Lozano Garzon, *IHTC 2023 General Chair* Petr Musilek, *IHTC 2025 General Chair* Gianfranco Chicco, *IEEE Italy Section Chair* Conference Treasurer: Pisana Placidi, IEEE Italy Section Treasurer

Publication Chair: Sergio Bruno, Vice-Chair IEEE Italy PES Chapter

Student, YP, WIE Special Events:

Abdullateef Aliyu, IEEE R8 Student Activities Committee Chair Stefano Selleri, IEEE Italy Section Student Activity and Educational Committee Coordinator Ines Ignacio, IEEE R8 Young Professional Committee Chair Santi Concetto Pavone, IEEE Italy Section YP Affinity Group Chair Wafa Ben-Hmida, IEEE R8 WIE Committee Chair Patrizia Lamberti, IEEE Italy Section WIE Affinity Group Chair

Climate Change Event:

Paul Cunningham, R8 Climate Change Committee Chair

Humanitarian Events Chairs:

Theodoros Panagiotis Chatzinikolaou, *R8 HuAC Chair* Paolo Maresca, *IEEE Italy Section Humanitarian Activity Coordinator*

Social media manager: Roberto Cometa, *Politecnico di Bari*

Webmaster:

Gianluca Mazzilli, Athena Srl

EEE IHTC IEEE International Humanitarian Technologies Conference

THEMATIC AREAS

CLEAN AND AFFORDABLE ENERGY

Reliable and efficient power systems in emerging markets and developing economies:

Strategies for the economical and safe operation of transmission and power distribution systems, models for coordination between system operators, business models for access to energy, optimization and planning.

Renewable energies application for sustainable development

(design, operations, planning, economics, efficiency improvement): Multi-carrier energy systems, decentralized RES use, EVs, RES integration in insular and rural power systems, advantageous strategies for hydrogen management.

Energy links: means for sustainability, cooperation and development:

Energy interconnectors, Regional Policies, Energy hubs, new projects, lesson learnt.

CRITICAL EVENTS AND ADVERSE LIVING CONDITIONS

Supply Chain and logistics innovative solutions in support of emergency scenarios:

New methodologies to optimize the Supply Chain in the humanitarian context, best practices, and experiences.

Technologies for effective management of refugees, their

reintegration into society and for ensuring sustainable settlements: Solutions to empower displaced people with technology, applications for immigrant integration into society, sustainable housing for asylum seekers, logistical management of refugees, castaways research and recovery systems.

• Technologies to assist in disaster mitigation, management, relief, and recovery:

Innovative protection systems and devices, earthquake and other natural disasters monitoring systems, solutions for urban and suburban security and safety, ideas for preserving the integrity of the territory, derisking investment.

LIFE QUALITY IMPROVEMENT

 Information and Communication Technologies for Development: ICT4D solutions to foster economic development by ensuring equitable access to up-to-date communication technologies and bridging the digital divide between more and less industrialized nations.

Solutions to make cities and human settlements inclusive, safe, resilient, and sustainable:

Smart cities and smart buildings, systems for the care and the protection of citizens, efficient methods to restore and consolidate transport routes to the most isolated and vulnerable communities, innovations in infrastructures. Technologies for cultural heritage preservation and use.

Technologies for poverty alleviation, ensuring healthy lives, ending hunger, achieving food security, and promoting a sustainable agriculture:

Solutions for food safety and quality control, human disease monitoring systems, crop and livestock health monitoring systems, dual-use solar and other resources for agricultural efficiency.

• Technologies to combat climate change and its impacts:

Climate-proofing systems, weather monitoring systems, monitoring Earth's ecosystems, oceans and ice caps, characterization of potential risks for the environment, sustainable solutions for wastes treatment and strategies for pollution reduction.

Technologies to ensure availability and sustainable management of water and sanitation for all:

Water quality measurement systems, smart water management systems for reducing water losses, hydraulic infrastructures sustainability (environment, economic and social), equipment for water supply, distribution, and purification. Water Energy Food nexus.

Technologies to ensure inclusive and equitable quality education and promoting lifelong learning opportunities for all:

Initiatives to promote access to information and education, smart solutions for school and University, young people, women, gender and minorities empowerment, training, and capacity building on vocational and executive levels.

 \rightarrow \rightarrow \rightarrow \rightarrow

TECHNICAL CO-SPONSORS:





IEEE Societies: IEEE Education Society

- IEEE Geoscience and Remote Sensing Society
- IEEE Humanitarian Technologies Board
- IEEE Industry Applications Society
- IEEE Oceanic Engineering Society **IEEE Power & Energy Society**
- IEEE 🌌 **Education Society**









IEEE Oceanic

Engineering Society





IEEE Chapters:

- IEEE Central South Italy Section Industry Applications/Power Electronics (IA/PEL) Chapter IEEE Italy Section Communications (COM) Chapter
- IEEE Italy Section Education (E) Chapter
- IEEE Italy Section Engineering in Medicine and Biology (EMB) Chapter
- IEEE Italy Section Geoscience and Remote Sensing (GRSS) Chapter
- IEEE Italy Section Industry Applications (IA) Chapter
- IEEE Italy Section Magnetics (MAG) Chapter IEEE Italy Section Oceanic Engineering (OE) Chapter
- IEEE Italy Section Power & Energy (PE) Chapter
- IEEE Italy Section Robotics and Automation (RAS) Chapter

IEEE Affinity Groups:

IEEE Italy Section Women in Engineering (WIE) Affinity Group IEEE Italy Section Young Professionals (YP) Affinity Group

PATRONS:

AEIT (Associazione Italiana di Elettrotecnica, Elettronica, Automazione, Informatica e Telecomunicazioni)

CIGRE Study Committee C1 Power System Development & Economics Ensiel (Energia e Sistemi Elettrici – Italian Inter-University Consortium for Energy and Electrical Systems)

GUSEE (Gruppo Universitario per i Sistemi Elettrici e per Energia) RES4AFRICA Foundation



RSE S.p.A.





GUSEE GRUPPO UNIVERSITARIO SISTEMI ELETTRICI PER L'ENERGIA





 $\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$

CONTACTS:



Internal Organizing Committee – General Requests ihtc2024@ieeesezioneitalia.it



Authors and Registration Information ihtc2024-authors@ieeesezioneitalia.it



Facebook IEEE International Humanitarian Technologies Conference



Instagram ieee_ihtc



IEEE International Humanitarian Technologies Conference





<u>ieeeihtc</u>

IEEE Region**g**









