

# The 5<sup>th</sup> International Conference on Advanced Technologies For Humanity

"A Responsible, Ethical & Sustainable Technological Future"

**December 25-26, ENSMR, Rabat, Morocco**



## CALL FOR PAPERS

**General Chairs**  
 Saliha ASSOUL, ENSMR, Morocco  
 Brahim EL BHIRI, EMSI, Morocco  
 Moha CHERKAOUI, ENSMR, Morocco  
 Ayman MOSALLAM, UCI, USA

**Technical & Program Chairs**  
 Ashraf Abdel KHALEK-MOSTAFA, Egypt  
 Pierre-Martin TARDIF, UdeS, Canada  
 Kawtar TIKITO, ENSMR, Morocco  
 Nabila ZRIRA, ENSMR, Morocco  
 Maria LEBBAR, ENSMR, Morocco

**Keynote and Panel Chairs**  
 Mohammed LAHBY, UH2, Morocco  
 Yassine MALEH, USMS, Morocco

**Publication Advisor**  
 Mourad AMER, CEO IEREK, Egypt

**Track Chairs**  
**Track 1: Smart and Sustainable cities**  
 Mohammed RAISS EL FENNI, INPT, Morocco  
 Sebastien ROY, UdeS, Canada  
 Yann BEN MAISSA, INPT, Morocco  
**Track 2: Information & Communication Technologies**  
 Houcine CHAFOUK, IRSEEM, France  
 Muhammad Shafiq, Guangzhou U. China  
 Younes KARFA BEKALI, FSR-UM5, Morocco  
**Track 3: Renewable and Sustainable Energies**  
 Badre BOSSOUFI, USMBA, Morocco  
 Mohammed ESSAAIDI, EMSI, Morocco  
**Track 4: Civil Engineering, Material and Smart buildings**  
 Ayman MOSALLAM, UCI, USA  
 Luciano FEO, UNISA, Italy  
 Shadi SAADEH, CSULB, USA  
**Track 5: Industry X.0**  
 Rachid Bennari, ENSAK, Morocco  
 Pietro MANZONI, UPV, Spain

**Sponsorship Chairs**  
 Kaoutar ELHARI, INSEA, Morocco  
 Moha CHERKAOUI, ENSMR, Morocco  
 Saliha ASSOUL, ENSMR, Morocco  
 Brahim EL BHIRI, EMSI, Morocco

**Industrial Chairs**  
 HASSAN MAHMUDUL, NIELSEN, India  
 Omar FERGANI, SRH, Germany  
 Safae MERZOUK, EMSI, Morocco

**Steering Committee**  
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 Ashraf ABOSHOSHA, EiC, ICGST, Egypt  
 Ayman MOSALLAM, UCI, USA  
 Brahim EL BHIRI, EMSI, Morocco  
 Moha CHERKAOUI, ENSMR, Morocco  
 Mohammed RAISS EL FENNI, INPT, Morocco  
 Rafika HAJJI, IAV, Morocco  
 Rajaa SAIDI, INSEA, Morocco  
 Yann BEN MAISSA, INPT, Morocco  
 Younes KARFA BEKALI, FSR-UM5, Morocco

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 Hamza TOULNI, LISTD, ENSMR, Morocco  
 Hayat ZAYDI, LISTD, ENSMR, Morocco  
 Kawtar TIKITO, LISTD, ENSMR, Morocco  
 Khadija OUAZZANI-TOUHAMI, LISTD/ENSMR, Morocco  
 Maryam GALLAB, LISTD, ENSMR, Morocco  
 Mounir BAALA, LISTD, ENSMR, Morocco  
 Nabila ZRIRA, LISTD, ENSMR, Morocco  
 Nissrine SOUISSI, LISTD, ENSMR, Morocco  
 Reda TAJINI, LISTD, ENSMR, Morocco  
 Safae MERZOUK, EMSI, Morocco  
 Youssef FAKHRI, FSK, Morocco

**Website & Online Activity Chair**  
 Y. F. EBOBISSE DJENE, UITK/EMSI, Morocco

The 5<sup>th</sup> edition of the International Conference on Advanced Technologies for Humanity (ICATH 2023) is organized by the Ecole Supérieure des Mines de Rabat (ENSMR) in collaboration with the Ecole Marocaine des Sciences de l'Ingénieur (EMSI), the National Institute of Statistics and Applied Economics (INSEA), and the National Institute of Post and Telecommunications (INPT), the Faculty of Sciences of Mohammed V University in Rabat (UM5-FSR), and the Ecole Nationale des Sciences Appliquées (ENSA-Kenitra). From **December 25 to 26, 2023**, the conference will be hosted in Rabat, Morocco's City of Light and Cultural Capital and is under the aegis of the Moroccan Ministry of Energetic Transition and sustainable development.

The conference's goal is to provide a forum for knowledge exchange and sharing, where researchers, experts, and innovators from around the world can present their most recent discoveries and discuss the challenges and opportunities associated with using advanced technologies for the benefit of humanity. Indeed, Advances in science and engineering have lower impact when the humanity side is ignored. For this reason, ICATH'23 aims at establishing this vital link in order to magnify such benefits. This conference is devoted to practical models and industrial applications related to advanced technologies for Humanity. It is considered as a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries. ICATH'2023 will be a trigger for further related research and technology improvements in this important subject. It provides a high-level international forum and an excellent venue for scientists, researchers, students and industry leaders.

## KEYNOTES



## TOPICS OF INTERESTS

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| <p><b>Track 1: Smart and Sustainable cities</b><br/>                 Smart education and intelligent learning systems<br/>                 Smart economy and digital businesses<br/>                 Smart Urban agriculture<br/>                 Smart healthcare<br/>                 Citizen sensors and crowdsourcing<br/>                 Smart urban infrastructure technologies<br/>                 Sustainable environment and Green urbanism solutions<br/>                 E-Administration &amp; E-Services<br/>                 Smart Economy and Digital Marketing<br/>                 Smart Urban governance<br/>                 Smart mobility<br/>                 Case studies and innovative applications<br/>                 Multi-thematic applications for smart cities</p> <p><b>Track 4: Civil Engineering, Material and Smart buildings</b><br/>                 Civil and Environmental Engineering<br/>                 Advanced Materials and Nanomaterials<br/>                 Building Operating Systems in the construction industry<br/>                 Human Computer Interaction for smart buildings<br/>                 Composite materials and Polymers<br/>                 Computer Vision for Civil and Environmental Engineering<br/>                 Construction 4.0<br/>                 Soil-Structure Interaction<br/>                 Mechanical Systems and Equipment for Buildings<br/>                 Smart Building Structures<br/>                 Building Information Modeling (BIM)<br/>                 Digital Twins, Building Energy Efficiency, Fire Science and Fire-Protection Systems for Buildings</p> | <p><b>Track 2: Communication and Information Technologies</b><br/>                 Data science and Security<br/>                 Cloud Computing and Big data<br/>                 Software Engineering for communication systems<br/>                 Wireless communications<br/>                 Mobile, ad-hoc and Sensor Networks<br/>                 Image Processing and Computer Vision<br/>                 Point cloud, signal processing and tools<br/>                 Internet of Things (IoT)<br/>                 Natural Languages Processing<br/>                 Blockchain and cybersecurity<br/>                 e-Health applications<br/>                 3D Visualization, Virtual/Augmented &amp; Mixed reality</p> <p><b>Track 5: Industry X.0</b><br/>                 Digital and Sustainable Manufacturing<br/>                 Smart Factories<br/>                 Industrial Internet of Things (IIoT)<br/>                 Robotics and Automation<br/>                 Digital twins for manufacturing<br/>                 Human-Machine Interaction<br/>                 Reliability and maintenance X.0<br/>                 Supply chain and Logistics X.0<br/>                 Proactive and predictive management in manufacturing</p> | <p><b>Track 3: Renewable and Sustainable Energies</b><br/>                 Renewable Energies<br/>                 Green energy technologies<br/>                 Power to X<br/>                 Energy efficiency challenges<br/>                 Lighting Technologies<br/>                 Energy Management and Electrical Engineering<br/>                 Energy storage and network balancing<br/>                 Grid integration and infrastructure<br/>                 Computing and Energy system modelling<br/>                 Climate change and environmental policies<br/>                 Fuel cell catalysts and catalyst support<br/>                 Power system management<br/>                 Smart Grid and Distributed Energy Resources</p> |
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## SUBMISSION GUIDELINES

- All submissions must be written in English
  - Submitted papers must be unpublished and not considered elsewhere for publication.
  - Manuscripts should respect Springer template (10 pages), including figures, tables, and references. (visit <https://icath-conf.org/index.php/call-for-papers>)
  - Submission link: <https://easychair.org/conferences/?conf=icath2023>
- All ICATH'2023 accepted and presented papers are expected to be published by **International Experts for Research Enrichment and Knowledge Exchange (IEREK)**.
- Authors of selected papers will be invited to submit an extended version to special issues in the following journals, Selected best papers will be invited to submit extended version for Springer journal of Cognitive Computation (SCI impact factor: 5.4) publication



## IMPORTANT DATES

- Submission Deadline : **September 30<sup>th</sup> / September 13<sup>th</sup> 2023**
- Notification of Acceptance : **October 30<sup>th</sup> 2023**
- Camera Ready : **November 10<sup>th</sup> 2023**
- Early Bid Registration : **November 10<sup>th</sup> 2023**
- Conference Venue : **December 25-26 2023**

