

**Title of Session:**

Exploring the Future of Intelligent Portable, Wearable and Mobile Solutions: Advancements, Applications and Challenges

Name, Title and Affiliation of Chair:

Dr. Maksym Gaiduk, HTWG Konstanz, Konstanz, Germany
Dr. Simone Orcioni, Università Politecnica delle Marche, Ancona, Italy
Dr. Massimo Conti, Università Politecnica delle Marche, Ancona, Italy
Daniel Scherz, HTWG Konstanz, Konstanz, Germany

Details of Session (including aim and scope):

The Special Session is aimed to bring together leading experts in portable as well as wearable technology and mobile solutions to discuss and disseminate cutting-edge research results. This session is dedicated to exploring the current state and potential future developments, incorporating multidisciplinary approaches covering computer science, engineering, healthcare and beyond.

This scientific symposium aims to provide an interdisciplinary platform for scientists, researchers and practitioners to exchange insights, share research results and explore challenges related to developing intelligent portable and mobile solutions. Emphasis will be placed on the rapid technological advancements, including sensor integration, machine learning, and human-computer interaction, that are driving the growing portable and wearable technology landscape.

The session will address a comprehensive range of topics, including but not limited to:

1. *Advanced Sensor Technologies*: Discussing the latest innovations in sensor technology and their application in wearables, portable and mobile devices.
2. *Machine Learning and AI Integration*: Exploring the integration of artificial intelligence and machine learning techniques to enhance the intelligence of portable and mobile solutions.
3. *Healthcare and Wellness Applications*: Examining the role of portable devices and wearables in healthcare, remote patient monitoring and personal wellness management.
4. *Human-Computer Interaction*: Analysing user interface and user experience design for wearable and portable mobile technologies.

The Special Session aims to encourage critical dialogue, inspire innovative research directions, and promote a shared understanding of the challenges and opportunities in this dynamic field. Researchers and practitioners attending this session will gain valuable insights into the state of the art of intelligent portable, wearable and mobile solutions, and contribute to the continued advancement of this rapidly evolving technology domain.

Important deadlines:

- Submission deadline: 10th May 2024
- Notification of Acceptance: 23rd May 2024
- Final paper publication files: 3rd June 2024

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Prof. Dr. Juan José Perea Rodríguez, Universidad Loyola Andalucía, Spain
Prof. Dr. Andrii Shalaginov, Kristiania University College, Norway
Prof. MD. Yesid Cardozo Vélez, Imágenes diagnósticas Hospital Universitario San Jorge, Colombia
Prof. Dr. Víctor Corcoba Magaña, Universidad de Oviedo, Spain
Daria Kern, Aalen University, Germany
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