



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:

AI, Robotics, and Digital Technologies for Medical/Healthcare Systems

Name, Title and Affiliation of Chair:

Dr Mohamed Bennasar

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Co-Chaired By

Dr. Yulia Hicks

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Prof. Rossi Setchi

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Details of Session (including aim and scope):

In recent decades, the research landscape in Artificial Intelligence (AI) and its application in domains such as robotics, human-machine systems, and digital health has witnessed significant growth. This evolution is now making a substantial impact on various facets of people's lives, spanning manufacturing, transportation, communications, healthcare, and numerous other applications.

Crucially, recognising and bridging the gap between the genuine needs in areas like robotics and digital health and the ongoing research is essential to ensure that technological progress effectively aligns with real-world requirements.

The aim of this invited session is to highlight the pivotal role played by AI and Digital Health in the transformation of healthcare services. It also aims to present and engage in discussions about recent advances in AI, Robotics, Human Machine Systems, and associated digital technologies that have the potential to enhance performance in manufacturing, transportation, and communications.

Topics of interest for submission include, but are NOT limited to:

- Artificial Intelligence, including machine learning and deep learning,
- AI Diagnostic systems,
- Robot perception, including robot vision and tactile sensing,
- Remote Monitoring,
- Electronic Health Records (EHR) Systems and Personal Health Records,
- Clinical Decision Support Systems (CDSS)
- Wearables and activity recognition
- Natural Language Processing (NLP) in healthcare
- Personalized Medicine

- Human Pose Tracking and Estimation
- Human Robot/Machine Interaction and Collaboration
- Industrial/Medical Big Data
- Multi-modal Human Robot/Machine Interfaces
- Computer-assisted Devices for Medical and Healthcare Use
- Robot Assisting Systems in Medical/Clinical Fields

Important Dates:

Submission of Papers Deadline: **April 1st, 2026**

Notification of Acceptance: **May 16th, 2026**

Final Submission Receipt of Publication Files: **June 2nd, 2026**

(The detailed information is available on the official website of our invited session.)

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

TBA

Website URL of Call for Papers (if any):

<https://www.ip.elec.mie-u.ac.jp/main/kes2026-invited-session/>

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