



# International

*Innovation in Knowledge Based and Intelligent  
Engineering Systems*



## INVITED SESSION SUMMARY

**Title of Session:**

**AI, Robotics, and Human Machine Systems (IROHMS) for Medical and Healthcare Applications**

**Name, Title and Affiliation of Chair:**

**Chair: Dr Yulia Hicks, Cardiff University, UK**

**Co-Chair: Dr Hiroharu Kawanaka, Mie University, Japan**

**Co-Chair: Professor Rossi Setchi, Cardiff University, UK**

**Details of Session (including aim and scope):**

Research in AI, Robotics and Human Machine Systems underwent huge development over the last decade and is starting to have effect on life of people in all areas, including medical and healthcare applications.

In this session, we aim to gather not only engineering researchers but also medical practitioners to discuss the most recent and innovative technologies and to define new problems in this field. Topics of interest for submission include, but are NOT limited to:

- AI for Early Detection and Diagnosis
- AI-assisted Disease Management
- AI-assisted Devices for Medical Use
- Robot Assisting Systems for End-of-Life Care
- Robot Assisting Systems in Medical Fields
- AI and Robotics for Clinical Training
- AI for Medical Imaging
- Human motion and pose recognition
- Emerging Trends in Healthcare

In this session, we will also invite clinical studies to formulate problems in medical/clinical, welfare and healthcare fields.

**Important Dates:**

Submission of papers: **3<sup>rd</sup> of May 2021**

Notification of Acceptance: **14<sup>th</sup> of May, 2021**

Receipt of publication files: **28<sup>th</sup> of May, 2021**

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

Centre for Artificial Intelligence, Robotics and Human-Machine Systems, Cardiff University  
Graduate School of Engineering, Mie University

**Website URL of Call for Papers (if any):****Email & Contact Details:**

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