



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:

Healthcare Systems using Artificial Intelligence, Deep Learning and Vision Transformers Techniques

Name, Title and Affiliation of Chair:

Dr. **Mihaela Luca**, Scientific Researcher III, Romanian Academy, Iași Branch, Institute of Computer Science, Romania

Prof. **Yen-Wei Chen**, Ritsumeikan University, Japan

Dr. **Suneeta Mohanty**, Associate Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), private deemed university, Bhubaneswar, Odisha, India.

Dr. **Liviu Andrei Scutelnicu**, University Alexandru Ioan Cuza, Faculty of Computer Science, Iași, Romania and Romanian Academy Iași Branch, Institute of Computer Science, Iași, Romania

Dr. **Vlad Constantin Crăciun**, University Alexandru Ioan Cuza, Faculty of Computer Science, Romania

Details of Session (including aim and scope):

Advanced computer aided systems design using artificial intelligence (AI) and Machine Learning (ML) techniques can solve numerous problems replacing the hard work of the physicians for medical images interpretation and video analysis. Deep Learning (DL) and Vision Transformers (ViT) breakthroughs are driving the wide expansion of AI in medicine. In a relation of successive inclusions (AI includes ML, DL and ViT), their tremendous development was decided by the new software development and hardware miniaturisation. Image and video processing new tools allow extensive learning from examples, sometimes overpassing or completing expert's observations. Assisting physicians or even offering information to sustain a complete diagnosis, the new medical applications are more and more useful. This session is a call for new ideas and medical implementations, applying AI, ML, DL and ViT, in support of health. Intending to gather papers from a range of research in medical expertise worldwide, we address to multi-disciplinary experts, researchers, engineers, managers, students and practitioners from the medical arena, with a warm invitation for contributions. Discussing how innovation and knowledge acquiring transforms in the context of AI development, applied to issues related to medicine, surgery, healthcare and ageing population, will constitute the focus of this meeting. The session will try to emphasis modern intelligent systems contribution in today's healthcare by advanced image and video processing.

Important Dates and Deadlines

Submission of papers: 30th March 2026

Notification of acceptance: 4th May 2026

Final paper publication files to be received by: 15th May 2026

Submissions must be formatted according to the instructions which can be found on the Springer website under "Instructions for Authors".

Papers must be submitted in PDF format for review purposes, but authors are required to upload editable word-processor files (LaTeX or MS Word) at the end of the review process.

The required paper length is 10 pages in publisher format. Papers longer than this may be subject to an additional charge. Short paper (4 pages) is also welcome.

Papers to be considered for the conference must be submitted in PDF form.

Please visit the conference website for detailed information about paper submission.

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

Ritsumeikan University, Japan

School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), private deemed university, Bhubaneswar, Odisha, India

Institute of Computer Science, Romanian Academy, Iași Branch, Iași, Romania

University Alexandru Ioan Cuza, Computer Science Faculty, Iași, Romania

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

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