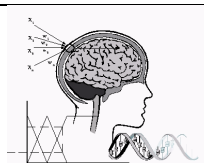
International

Innovation in Knowledge Based and Intelligent Engineering Systems



INVITED SESSION SUMMARY

Title of Session: Artificial Intelligence, Machine Learning, Deep Learning in Medical Applications

Name of Chair: Mihaela Luca and Anca Ignat

Details of Session:

While Artificial Intelligence (AI) created excitement with its visionary possibilities, Machine Learning (ML) came to solve numerous tangible problems but only in the last decade Deep Learning (DL) breakthroughs drove AI wide expansion in all sciences domains. In a relation of successive inclusions (AI includes ML which includes DL), their tremendous development was decided by the new software development and hardware miniaturisation. Aiming to realise complex machines — supervised by computers — that possess the same characteristics of human due to AI, the new tools allow extensive learning from examples, sometimes overpassing or completing expert's observations. Helping the physicians or even offering information to sustain a complete diagnosis, these new medical applications are more and more variated and useful. This session is a call for describing new ideas and medical implementations, applying AI, ML, and DL 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 the ways that innovation, knowledge exchange and enterprise in the context of AI boom can be applied to issues relating to medicine, surgery, healthcare and ageing population, will be the focus of this meeting. The session will try to emphasis the ways in which modern intelligent systems contribute, using AI, ML, and DL, to solve hot subjects in today's healthcare and medical practice.

Important Dates and Deadlines
Submission of Papers: 10 Feb 2022
Notification of Acceptance: 27 Feb 2022
Upload of Publication Files: 06 March 2022

Submissions must be formatted according to the instructions which can be found on the Springer website .. under "Instructions for Authors", https://www.springer.com/gp/authors-editors/conference-proceedings/conference-proceedings-guidelines...
Papers must be submitted in PDF format for review purposes, but authors are required to upload editable word-processor files 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 through the PROSE online submission and review system: http://inmed-22.kesinternational.org/prose.php
Please visit the conference web site (http://inmed-22.kesinternational.org/index.php) for detailed information about paper submission.

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