



International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session: Digital Architecture and Economics for Internet of Things, Big data, Cloud and Mobile IT in Healthcare

Name of Chair:

Yoshimasa Masuda, Carnegie Mellon University, USA / Keio, Tokyo University of Science, Japan
Rashmi Jain, Montclair State University, USA
Donald S. Shepard, Brandeis University, USA
Yoshiaki Fukami, Keio, Tokyo University of Science, Japan
Maria Iacob, University of Twente, Netherland
Shuichiro Yamamoto, Nagoya University, Japan

Details of Session:

Digital healthcare is a growing field with promising economic potential. To best realize this potential, it is important to consider the digital architecture linking many of its key components. These include the internet of things, big data, cloud/mobile, data privacy and compliance, and incentives to patients and organizations to improve services. These contribute to benefits to the society and efficiencies and/or profit to the organizations. However, healthcare data also has challenges, like no other domain. Some of these are related to data governance, ownership, and the increasing pervasiveness of IoT. The purpose of this invited session is to share promising trends, innovative ideas, new methods in digital architecture, recent economic analysis and challenges, and advanced research results in digital healthcare fields.

List of topics of interest

- healthcare innovation
- data platforms in healthcare (electronic healthcare records, electronic medical records, data standards)
- predictive analytics on cloud and mobile IT platforms
- healthcare management on cloud and mobile IT platforms
- healthcare economic analysis in digital healthcare
- internet of things in healthcare
- medical internet of things, medical system management and governance
- big data in healthcare (clinical decision support systems, etc.)
- data platform management for digital healthcare and transformation
- application portfolio management with digital healthcare
- telehealth, computerized physician order entry
- healthcare service delivery on digital platforms
- telemedicine, digital pharmacy
- healthcare robotics
- robotics with digital platforms in healthcare
- technology enabled healthcare services
- digital healthcare architecture with Society 5.0, Industry 4.0

Please submit your paper of 5 pages (as an idea paper) to 10 pages (as full paper).

<http://inmed-23.kesinternational.org/>

Important Dates and Deadlines

Submission of Papers: 10 Feb 2023
Notification of Acceptance: 2 March 2023

Upload Final Publication Files: 10 March 2023
Conference Sessions: 14 - 16 June 2023

Publication: Accepted papers will be published by Springer in a volume of the Book Series entitled:
“Smart Innovation, Systems and Technologies Series”

<https://www.springer.com/series/8767>

Website URL (if any):

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