2021 IEEE INTERNATIONAL WORKSHOP ON
METROLOGY FOR INDUSTRY 4.0 & IoT

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METROIND4.0&IoT

CALL FOR PAPERS for the Special Session on

INDUSTRY 4.0 AND IoT FOR THE HOSPITAL OF THE FUTURE

ORGANIZERS

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IMPORTANT DATES

March 1, 2021
Extended Abstract Submission

March 28, 2021
Acceptance Notification

April 30, 2021
Final Paper Upload Deadline

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ABSTRACT

Healthcare services are facing a number of challenges linked to the ageing of the population, an increase in the prevalence of chronic conditions and more recently increased frequency of pandemic outbreaks. Health budgets are limited, sometime scarce. New technologies will play a crucial role in transforming hospitals. In particular, IoT, novel medical devices, artificial intelligence and robotics, have the potential to transform health and care facilities across clinical, managerial and logistic functions. Hospitals consume the majority of resources available to health and care budgets. Making hospitals more efficient and secure is crucial to support sustainability of the healthcare system as a whole. This is even more important during global crisis such as the recent COVID-19 pandemic.

The goal of this session is to foster the discussion around how key enabling technologies (KET) may support digital transformation of hospitals, bridging the present with the future in a sustainable and ethical manner. Contributions on KETs such as innovative medical devices, artificial intelligence, Internet of Things, robots and big-data analytics will be particularly welcome. Multidisciplinary contributions covering technical, clinical, regulatory, ethical issues relevant for the successful adoption of these KETs in real applications are encouraged.

TOPICS

- Experiences of Industry 4.0 in hospitals
- Key enabling technologies for clinical engineering, facilities and hospital management
- Sensors network for management of medical devices
- Measurements and parameters estimation for novel clinical needs
- Regulatory sciences (GDPR, MDR 2017/745)
- Legal, economic and ethical issues arising from the adoption of AI and big-data analytics in hospitals
- Cybersecurity in hospitals
- Hospital disaster preparedness

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