Smart Health and Internet of Medical Things
(in conjunction with WF-IoT 2021)

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Call for Papers
Continuous improvement of cost-effective healthcare and patient treatment is by far the top national interest worldwide. The proliferation, versatility, and agility of medical devices have revolutionized healthcare and contributed to the new smart Health (sHealth) 4.0 era of internet of medical things (IoMT). Broadly speaking, these IoMT devices include wearable, miniaturized, or implantable sensors that can be efficiently used for patient monitoring. The recent pandemic has also triggered the need for new solutions and systems for smart and secure remote patient monitoring, and medical data exchange across multiple healthcare entities to help combat the outbreak.

During this special session, we will shed some light on cutting-edge & interdisciplinary research, and commercial solutions in the field of sHealth and IoMT. We discuss emerging technologies and issues in this field, such as Artificial Intelligent AI-based, machine learning, and edge computing techniques to address various key design aspects of the IoMT devices and healthcare systems, such as energy efficiency, communications, hardware design, and security and privacy. We also discuss emerging application frameworks such as mobile/smart health, and Blockchain for health systems, integrating multiple entities for secure medical data exchange.

Topics of interest include, but are not limited to:
- Innovative and secure healthcare architectures for combating pandemics.
- Pervasive and distributed AI techniques for efficient sHealth systems.
- Reinforcement learning (RL) for optimal sHealth systems performance.
- Federated learning (FL)-based architectures and solutions for global detection of sHealth issues.
- IoMT devices’ energy efficient design and development.
- IoMT-enabled energy efficient communication for smart monitoring.
- Edge and fog computing for IoMT-enabled systems and applications.
- sHealth systems using Blockchain for secure medical data exchange.
- sHealth security and privacy

Paper Submission Guidelines
All final submissions should be written in English with a maximum paper length of six (6) printed pages see web conference for instructions. Papers must be submitted through https://epapers.org/wf-iot2022/ESR/login.php. See conference web page for instructions: https://wfiot2021.iot.ieee.org/authors-proposers/

Important Dates
Paper submission deadline: Feb 21, 2021
Paper acceptance notification: March 21, 2021
Camera-ready submission: April 21, 2021