CALL FOR PAPERS AND PROPOSALS

Selected Areas in Communications
E-Health

Symposium Co-Chairs

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Scope and Motivation

The e-Health track provides an opportunity to bring together healthcare professionals, researchers, scientists, engineers, academics and students from all around the world to share their experience and latest advances on new technologies and systems development in different healthcare and medicine applications. In particular, the e-Health track of the SAC symposium will focus on the advancements in e-Health and medical communications. It will provide an opportunity to researchers all around the world to share their work and contributions in the field of digital healthcare. The integration of ICT into healthcare has opened new possibilities in the medical field and enabled better healthcare facilities. Wireless devices and systems for health monitoring, detection, and prediction of medical conditions are few of the enabling tools and technologies that have improved the existing healthcare domain. However, enormous challenges still remain to be resolved in order to develop optimized, flexible, reliable, secure, and power-efficient networks suitable for medical needs that can help accelerate scientific research and early diagnosis of diseases and more effective treatments.

Topics of Interest

Topics of interest for this symposium include but are not limited to the following:

• Context awareness and autonomous computing for Ambient Assisted Living

• Advanced AI solutions for epidemic diseases and healthcare applications.

• IoT solutions for remote or in-home patient monitoring

• New paradigm of health informatics for human wellness and patient monitoring

• Mobile Healthcare

• Advanced mathematical modelling solutions for monitoring and predicting the spread of epidemic diseases.

- Future technologies for e-Health

- Personal and body area networks

- eHealth applications over 5G/6G networks

- Biomedical and biosensors engineering

- Sensing of vital signs and signatures

- Wearable medical wireless sensors

- In-Body medical sensors communications

- Novel emotion care applications, services, and systems based on health informatics

- Health and wellness measurement, monitoring and intervention

- Health grid and health cloud

- Health monitoring and traffic characterization

- Emerging e-Health applications

- Mobile and cloud computing for e-Health

- Wearable computing and robotics for sensing psychological parameters

- Big data analytics for healthcare

- Machine/Deep Learning for e-Health

- Artificial Intelligence (AI) for eHealth application

- Multimodal data processing and analysis for sensing psychological parameters

- Security, trust and privacy in e-Health

- E-Health systems for Integrated Care

- Image and video processing for e-Health

- Novel emotion care applications, services, and systems based on health informatics

Important Dates

Paper Submission: 15 April 2022
Notification: 25 July 2022
Camera Ready and Registration: 1 September 2022

How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE Globecom 2022 website: https://globecom2022.ieee-globecom.org/