



Call for Papers

Symposium on Selected Areas in Communications

e-Health Track

Track Chair

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Scope and Motivation

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. The rapid growth of using such devices and technologies in medical fields has created new opportunities for emerging application development. However, some challenges need to be addressed and overcome to utilize the application of e-Health to its full potential. There is a massive scope for e-Health to benefit from the evolution of technologies and the introduction of new paradigms.

Topics of Interest

The e-Health SAC Symposium invites original contributions from researchers working in both academia and industry in the following topics of interest, but not limited to:

- Telemedicine and mobile telemedicine
- Advanced Signal Processing for e-Health
- Big data analytics for healthcare
- Biomedical and biosensors engineering
- Sensing of vital signs and signatures
- Analysis and management of electronic health records
- Wearable medical wireless sensors
- Wireless coverage and interference issues in e-Health applications
- Health monitoring and traffic characterization
- Artificial intelligence and machine learning for healthcare

- Energy saving for long time monitoring
- In-Body medical sensors communications
- Communication protocols and algorithms for eHealth
- Molecular sensor communications
- E-Health-oriented software architectures
- Context awareness and autonomous computing for AAL (Ambient Assisted Living)
- Autonomic diagnosis and situation awareness (Fall, Activity, etc.)
- Health and wellness measurement, monitoring and intervention
- Security, trust and privacy in e-Health
- Future mobile networks for Healthcare (5G networks and beyond)
- Emerging e-Health applications
- Future technologies for Digital Medicine
- Mobile and cloud computing for e-Health
- Health information systems and interoperability
- Context and content aware based e-Health systems
- E-Health systems based on social technologies
- Health grid and health cloud
- ICT-enabled healthcare system
- Internet of Things (IoT) for e-Health

Important Dates

Paper Submission: 12 October 2020

Notification: 25 January 2021

Camera Ready and Registration: 22 February 2021

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 ICC2021 website: <https://icc2021.ieee-icc.org/>