



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 aims 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 for researchers all around the world to share their work and contributions in the field of healthcare. The integration of Information and Communications Technology (ICT) into healthcare has opened new possibilities in the medical field and provided a needed relief in overstressed healthcare institutions. Wireless devices and systems for health monitoring, detection, and prediction of medical conditions are among the enabling tools and technologies that have improved the existing healthcare domain. However, enormous challenges 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

To ensure a wide coverage of the advances in this field, the e-Health Track of the SAC Symposium solicits original contributions in, but not limited to, the following topical areas:

- 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 sensor communications
- Communication protocols and algorithms for e-Health
- 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 (beyond 5G networks)
- 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
- e-Health systems for integrated care
- Future technologies for the health of the aging brain
- Image, audio, and video processing for e-Health

Important Dates

Paper Submission: October 11, 2023

Notification: January 18, 2024

Camera Ready and Registration: February 15, 2024

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 ICC 2024 website: <https://icc2024.ieee-icc.org/>