



**IEEE Global Communications
Conference**
9-13 December 2018
Abu Dhabi, UAE
Gateway to a Connected World



Call for Papers

Selected Areas in Communications Symposium

Track on E-Health

Track Chair

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Scope and Motivation

The e-Health track provides an opportunity to bring together policy makers, healthcare professionals, researchers, scientists, engineers, academics and students from all around the world to share their experience and latest advances and updates on new technologies and systems development in different healthcare and medicine applications. E-Health technologies offer new opportunities to transform the way we receive and provide health care services. It enables new approaches to independent living, integrated health and social care. New solutions continue to be developed to create safer health care environments. The rapid growth of using such devices and technologies in medical fields has created new opportunities for emerging application development. 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, personalised and precision medicine, early diagnosis of diseases and more effective treatments.

Main topics of Interest

This track invites participation from both academic and industry researchers working in any aspect related to e-Health. The e-Health SAC Symposium solicits original contributions in, but not limited to, the following topics of interest:

- Telemedicine and Telecare
- Mobile Healthcare
- Future mobile networks for Healthcare (e.g. 5G)
- Future technologies for e-Health
- Personal and body area networks
- Biomedical and biosensors engineering
- Sensing of vital signs and signatures
- Wearable medical wireless sensors
- IoT for e-Health
- In-Body medical sensors communications
- Molecular sensor communications
- E-Health-oriented software architectures (Agent, SOA, Middleware, etc.)
- Autonomic diagnosis and situation awareness (Fall, Activity, etc.)
- Health and wellness measurement, monitoring and intervention



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- Health grid and health cloud
- Health monitoring and traffic characterization
- Emerging e-Health applications
- Mobile and cloud computing for e-Health
- Big data analytics for healthcare
- ICT-enabled healthcare system
- E-Health systems for Integrated Care
- Image and video processing for e-Health
- Health information systems
- E-Health systems based on Social technologies
- Precision medicine
- Electronic health records
- Communication protocols and algorithms for eHealth
- Artificial intelligence for healthcare
- Energy saving for long time monitoring
- Context and content aware based e-Health systems
- Context awareness and autonomous computing for AAL (Ambient Assisted Living)
- Wireless coverage and interference issues in e-Health applications
- Interoperability issues in e-Health
- Usability, user experience and acceptability in e-Health
- Security, trust and privacy in e-Health