IEEE GLOBECOM™ 2019

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IEEE Communications Society

IEEE Global Communications Conference
9-13 December 2019 • Big Island, Hawaii, USA
Revolutionizing Communications

CALL FOR PAPERS AND PROPOSALS

Selected Areas in Communications Symposium
Track on E-Health

SYMPOSIUM CHAIR:

Giorgio Quer, Scripps Research, San Diego, CA (email: gquer@scripps.edu).

SCOPE AND MOTIVATION:

The e-Health track provides an opportunity to bring together researchers, scientists, healthcare professionals, policy makers, 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 healthcare services towards the digitalization of medicine. 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.

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, personalized and precision medicine, early and automatic diagnosis of diseases and more effective treatments with digital technologies.

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 Mobile Healthcare
- Future mobile networks for Healthcare (5G networks)
- Future technologies for Digital Medicine
- Advanced Signal Processing for e-Health
- Big data analytics for healthcare
- Artificial intelligence and machine learning for healthcare
- Internet of Things (IoT) for e-Health
- Personal and body area networks
- Biomedical and biosensors engineering
- Sensing of vital signs and signatures
- Wearable medical wireless sensors
- 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
- Health grid and health cloud

- Health monitoring and traffic characterization
- Emerging e-Health applications
- Mobile and cloud computing for e-Health
- 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 and personalized medicine
- Analysis and management of Electronic health records
- Communication protocols and algorithms for eHealth
- 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

IMPORTANT DATES:
- Paper Submission: 15 April 2019
- Acceptance Notification: 15 July 2019
- Camera-Ready: 16 Aug 2019

All papers should be submitted via EDAS (SAC EH): https://edas.info/newPaper.php?c=25089