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 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. It provides a point to discuss recent developments and to present cutting-edge innovations in all aspects of the field and share the latest updates on new technologies, solutions and applications that would shape the new generation of networks and systems related with healthcare and medicine. e-Health is one of the major research topics that have been attracting cross-disciplinary research groups. It enables new approaches to independent living, integrated health and social care and the rapid growth of using such themes 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 and early diagnosis of diseases and more effective treatments

To ensure complete 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:

TOPICS OF INTEREST

- Context awareness and autonomous computing for Ambient Assisted Living
- IoT on eHealth
- IoT solutions for remote or in-home patient monitoring
- Digital Signal Processing (DSP) algorithms towards early diagnosis;
- Mobile Healthcare
- Future mobile networks for Healthcare (e.g. 5G)
- Future technologies for e-Health
- Personal and body area networks
- eHealth applications over 5G 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
- Blockchain for e-Health
- Big data analytics for healthcare
- Machine/Deep Learning for e-Health
- Artificial Intelligence (AI) for eHealth application
- ICT-enabled healthcare system
- Security, trust and privacy in e-Health
- E-Health systems for Integrated Care
- Future technologies for the health of the aging brain
- Image and video processing for e-Health

IMPORTANT DATES

Paper Submission: 15 April 2020

Notification: 25 July 2020

Camera Ready and Registration: 1 September 2020

SUBMISSION INSTRUCTION

All papers for technical symposia should be submitted via EDAS through the following link: https://edas.info/N27054