

Selected Areas in Communications Symposium

e-Health Track

Symposium Co-Chairs

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Scope and Motivation

The e-Health Track - Symposium on Selected Areas in Communications will focus on advances in e-Health and medical communications. It provides a forum for discussion of recent developments, bringing together researchers, scientists, engineers, academicians and students all around the world to share the latest updates on new technologies and applications that would shape the next generation of networks and systems related with medicine and healthcare. eHealth technologies play an important role in medical solutions and healthcare. 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, despite the huge progress that has been achieved enormous challenges still remain to be resolved in order to develop flexible, reliable, secure, and power-efficient networks suitable for medical needs.

Main Topics of Interest

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

- Telemedicine and mobile telemedicine
- Biomedical and biosensors engineering
- Sensing of vital signs and signatures
- Wearable medical wireless sensors
- IoT on eHealth
- In-Body medical sensors communications
- Energy saving for long time monitoring
- Molecular sensor communications
- E-Health-oriented software architectures (Agent, SOA, Middleware, etc.)
- Autonomic diagnosis and situation awareness (Fall, Activity, etc.)
- Context awareness and autonomous computing for AAL (Ambient Assisted Living)
- Health and wellness measurement, monitoring and intervention
- Health grid and health cloud
- Health monitoring and traffic characterization
- Usability and acceptability in e-Health
- Emerging e-Health applications
- Mobile and cloud computing for e-Health
- ICT-enabled personal health system
- Health information systems and interoperability
- Social aspects of e-Health
- Electronic health records
- Communication protocols and algorithms for eHealth
- Security, trust and privacy in e-Health

Track-Chair Biography

Prof. **Joel J. P. C. Rodrigues** (joelj@ieee.org) [S'01, M'06, SM'06] is a professor and senior researcher at the National Institute of Telecommunications (Inatel), Brazil and senior researcher at the *Instituto de Telecomunicações*, Portugal. He has been professor at the University of Beira Interior (UBI), Portugal and visiting professor at the University of Fortaleza (UNIFOR), Brazil. He received the *Academic Title of Aggregated Professor* in informatics engineering from UBI, the Habilitation in computer science and engineering from the University of Haute Alsace, France, a PhD degree in informatics engineering and an MSc degree from the UBI, and a five-year BSc degree (licentiate) in informatics engineering from the University of Coimbra, Portugal. His main research interests include e-health, sensor networks and IoT, vehicular communications, and mobile and ubiquitous computing. Prof. Joel is the leader of NetGNA Research Group (<http://netgna.it.ubi.pt>), the President of the scientific council at ParkUrbis – Covilhã Science and Technology Park, the Past-Chair of the IEEE ComSoc Technical Committee on eHealth, the Past-chair of the IEEE ComSoc Technical Committee on Communications Software, Steering Committee member of the IEEE Life Sciences Technical Community and Publications co-Chair, and Member Representative of the IEEE Communications Society on the IEEE Biometrics Council. He is the editor-in-chief of the International Journal on E-Health and Medical Communications, the editor-in-chief of the Recent Advances on Communications and Networking Technology, the editor-in-chief of the Journal of Multimedia Information Systems, and editorial board member of several high-reputed journals. He has been general chair and TPC Chair of many international conferences, including IEEE ICC, GLOBECOM, and HEALTHCOM. He is a member of many international TPCs and participated in several international conferences organization. He has authored or coauthored over 500 papers in refereed international journals and conferences, 3 books, and 2 patents. He had been awarded several Outstanding Leadership and Outstanding Service Awards by IEEE Communications Society and several best papers awards. Prof. Rodrigues is a licensed professional engineer (as senior member), member of the Internet Society, an IARIA fellow, and a senior member ACM and IEEE.