Title of the special track: “Cloud-Assisted Body Area Networks (CABAN)”

Organizing Chairs:

- Raffaele Gravina, University of Calabria, Italy
- Andrea Mannini, Scuola Superiore Sant'Anna, Italy

Abstract:
The advances of body area networks, mobile computing, wireless networking and cloud computing offer tremendous opportunities in providing newer and better cloud-assisted body area networks (CABAN). The main objective of this special track is to provide a medium for researchers and practitioners to present their research findings related to the synergy among cloud computing and various CABAN-enabling technologies such as sensor-actuator networks, machine-to-machine (M2M) communication, RFID and the Internet of Things (IoT).

Topics of interest:

- Communication, information and software architectures
- Integration techniques between clouds and Body Area Networks (BAN)
- A cloud of clouds for CABAN
- Massively distributed/deployable CABAN
- Cloud-assisted data management, mining and processing for BAN
- Cloud-assisted decision support systems with BAN
- Data acquisition, exchange and dissemination methods
- Pervasive services for mobile cloud users
- Resource management
- Security and privacy
- Energy efficiency
- Workflow management
- Intelligence and optimization between clouds and Body Area Networks
- Data visualization
- Heterogeneity of in/on-body and ambient sensors/actuators
- Nanoscale sensors and communication in/on/around human bodies
- Applications and experience

TPC:

- Lorenzo Carnevale, University of Messina, Italy
- Min Chen, Huazhong University of Science and Technology
- John Dinesh, Northeastern University, Boston, USA
- Antonino Galletta, University of Messina, Italy
- Antonio Guerrieri, ICAR-CNR, Italy
- John Lach, University of Virginia
- Wenfeng Li, Wuhan University of Technology
- Congcong Ma, Wuhan University of Technology
- Cristian Pasluosta, University of Freiburg,
- Yi Ren, University of Massachusetts, Boston, USA
- Claudio Savaglio, University of Calabria, Italy