BodyNets 2014 Special Track on
Technologies and Applications for Telerehabilitation (TAT)

This special track is focused on tele-rehabilitation systems, based on state of the art motion tracking technology, implementing clinically innovative protocols, suitable for large scale application in daily practice of physical therapy and training. These systems can be used to deliver rehabilitation services via information and communication technologies in a number of different kind of locations, including but not limited to homes, schools, communities-based worksites and outdoor environments.
The goal is to bring together researchers and practitioners from diverse disciplines, such as bio-engineering, electronic engineering, computer science, human-computer interaction, ergonomy, physical therapy and medicine, which have designed, analyzed, developed or deployed prototypes of telerehabilitation tools and services.
We invite submissions to the TAT special track with original (unpublished and not currently under review) and novel contributions in inter-disciplinary areas including (but not limited to), the following:

**TOPICS OF INTEREST:**

**Technologies**
- Data acquisition
  - Wireless Body Sensor Networks
  - Optical sensors (e.g. RGB, stereo and depth cameras; Wii and Kinect)
  - Smart Textiles
  - Instrumented accessories (e.g. gloves, insoles, bracelets and smartwatches)
- Signal Processing
  - Motion tracking
  - Biomechanical modeling and analysis
  - Computer Vision
  - Machine Learning
  - Artificial Intelligence
- Human Computer Interaction
  - Usability
  - Gamification
  - Haptic interaction
  - Virtual and Augmented reality
- Software Engineering
  - Embedded systems
  - Cloud Computing
  - Integration with e-Health Systems
  - Security

**Applications**
- Neurological disorders
- Problems of the musculoskeletal system
- Posture and Gait analysis
- Sport and wellness

**Trials**
- Successful and unsuccessful stories
- Telerehabilitation clinical protocols
- Acceptability of telerehabilitation services
- Sustainability and business models
IMPORTANT DATES
Paper submission deadline: June 1, 2014
Notification deadline: June 30, 2014
Camera ready deadline: July 31, 2014
Conference dates: September 29, 2014 – October 1, 2014 London, GB

PAPER SUBMISSION
Both regular and short papers are welcome: regular papers are limited to 7 pages, while short papers to 4 pages. Papers must follow the ACM conference paper format. Please visit http://bodynets.org/2014/show/initial-submission for detailed submission instructions.

PUBLICATION
All accepted paper will be published by ACM. Selected papers will be considered for publication in leading ISI-impacted journals.

TRACK CO-CHAIRS:
Laura Contin, Telecom Italia, Italy – laura.contin@telecomitalia.it
Roberto Nerino, Italian National Research Council, Italy – roberto.nerino@ieiit.cnr.it
Angelo Maria Sabatini, Scuola Superiore Sant’Anna, Italy - angelo.sabatini@sssup.it

PROGRAM COMMITTEE MEMBERS
Ruzena Bajcsy - University of California BERKELEY, USA
Rezaul Begg – Victoria University, Australia
Giorgio Buttazzo – Scuola Superiore Sant’Anna, Italy
Brian Caulfield - University College Dublin, Irland
Veronica Cimolin – Politecnico di Milano, Italy
Gianluigi Ferrari – University of Parma, Italy
Roberta Giannantonio – Telecom Italia, Italy
Nick Guldemond - University Medical Centre Utrecht, NL
Alessandro Mauro – University of Turin, Italy
Shyamal Patel - Harvard Medical School, USA
Daniel Roggen - University of Sussex, UK