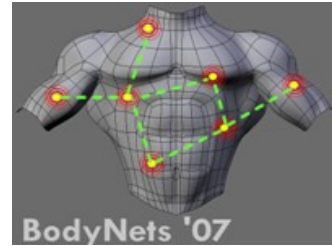


BodyNets 2007

2nd International Conference on Body Area Networks



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11-13 June, 2007, Florence (Italy)

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TECHNICAL PROGRAM

Monday 11th June

9.30 am – 10.00 am **Introduction and Presentation of the conference**

10.00 am – 11.45 am **Session 1: Hardware for BAN**

- **A Miniaturized Tunable Microstrip Antenna for Wireless Communications with Implanted Medical Devices**, Daniel Rucker, Ameer Al-Alawi, Rami Adada, Hussain Al-Rizzo (University of Arkansas at Little Rock)
- **SpotCore: A Power-Efficient Embedded Processor for Intelligent Sensor Networks**, Mbou Eyole-Monono, Robert Harle (University of Cambridge), Andrew Rose (ARM Ltd.)
- **Energy Scavenging for Body Sensor Networks**, Elizabeth Reilly, Paul Wright (University of California Berkeley)
- **A Low Power Sensor Interface IC for Wearable Wireless Biomedical Devices**, Xiaodan Zou (National University of Singapore), Yuanjin Zheng (Institute of Microelectronics), Yong Lian, Xiaoyuan Xu (National University of Singapore) *[short paper]*

11.45 am - 12.00 am **Coffee Break**

12.00 am - 1.00 pm **Session 2: Protocols for Body Area Sensor Networks**

- **Bodynet Architectures: The Meaning of Wearability**, Paul Lukowicz (University of Passau) *[invited paper]*
- **AnyBody: a Self-Organization Protocol for Body Area Networks**, Thomas Watteyne (France Telecom R&D / CITI Laboratory), Isabelle Augé-Blum (CITI Laboratory, INSA Lyon), Mischa dohler, Dominique Barthel (France Telecom R&D)

1.00 pm - 2.30 pm **Lunch**

2.30 pm- 4.15 pm **Session 3: Body Area Networking**

- **Practical Experiences on Mobile Inter-Body-Area-Networking** Martin Lipphardt, Stefan Fischer, Stefan Ransom, Dennis Pfisterer, Horst Hellbrueck (Institute of Telematics, University of Luebeck),
- **Energy comparison and optimization of wireless body-area network technologies** Le Yan, Niraj Jha (Princeton University), Lin Zhong (Rice University),
- **OsteoConduct: Wireless Body-Area Communication based on Bone Conduction**, Lin Zhong; Michael Liebschner (Rice University),
- **Body Area Networking Standardization: Present and Future Directions**, Carlos Cordeiro, Maulin Patel (Philips Research) *[short paper]*

4.15 pm - 5.00 pm **Coffee Break**

5.00 pm– 6.00 pm **Session 4: Work In Progress 1**

- **Analysis of interference in WBANs**, Valter Bella; Claudio Borean; Toma Stefano Popescu (TI-Lab)
- **Delay Aware, Reconfigurable Security for Embedded Systems**, Tammara Massey (UCLA); Philip Brisk (UCLA); Foad Dabiri (UCLA); Majid Sarrafzadeh (UCLA)

Social dinner (starting at 7.30 pm)

Tuesday 12th June

9.30 am – 10.45 am **Keynote Speech: Joe Paradiso, Media Lab**

“From the Ball Field to the Dance Hall - A Decade of Body Sensor Networks in Medicine, Sports, Entertainment, and the Arts”

10.45 am – 11.15 am **Coffee Break**

11.15 am - 12:45 am **Session 5: Context Awareness and activity recognition**

- **Autonomic Sensing for Body Sensor Networks** Guang-Zhong Yang [*invited paper*]
- **Self-Organising Object Networks using Context Zones for Distributed Activity Recognition**, Venet Osmani Sasitharan Balasubramaniam (Telecommunications Software and Systems Group), Dimitri Botvich (Waterford Institute of Technology)
- **Real time gesture recognition using Continuous Time Recurrent Neural Networks** Gonzalo Bailador del Pozo (Universidad Politecnica de Madrid), Daniel Roggen, Gerhard Troester (ETHZ), Gracian Triviño Barros (European Centre for Soft Computing)

1.00 pm - 2.30 pm **Lunch**

2.30 pm– 3.30 pm **Session 6: Context Awareness and activity recognition**

- **Gestures are Strings: Efficient Online Gesture Spotting and Classification using String Matching**, Thomas Stiefmeier; Gerhard Troester; Daniel Roggen (ETH)
- **On-Body Activity Recognition in a Dynamic Sensor Network** Clemens Lombriser, Gerhard Troester, Daniel Roggen, Bharatula Nagendra (ETH)

3.30 pm - 4.15 pm **Coffee Break**

4.15 pm - 5.15 pm **Session 7: Work In Progress 2**

- **Motion Tracking Algorithms for Inertial Measurement**, Brendan O'Flynn, Javier Torres, Philip Angove, Frank Murphy, Cian O'Mathuna, (Tyndall National Institute)
- **Context-aware applications using personal sensors**, Subercaze Julien, Maret Pierre (INSA de Lyon), Ngoc-Minh Dang, Ken Sasaki (University of Tokyo)

Guided tour of the town (starting at 6:00 pm)

Wednesday 13th June

9.00 am– 11.00 am **Session 8: Personal Sensor Network: Tools and Applications**

- **Lightweight Medical BodyNets** Foad Dabiri (UCLA), Hyduke Noshadi (UCLA), Tammara Massey (UCLA) Majid Sarrafzadeh (UCLA) [*invited paper*]
- **BeTelGeuse - A Tool for Bluetooth Data Gathering** Petteri Nurmi (HIIT); Joonas Kukkonen (HIIT); Eemil Lagerspetz; Jukka Suomela(HIIT); Patrik Floréen (HIIT)
- **Self management of chronic disease using mobile devices and Bluetooth monitors** Alison Marshall (University of Leeds)
- **A Novel System for Elderly Fall Safety using Body Area Network** Myo Naing, Nyan Eng Hock, Francis Tay, Dagang Guo, Lin Xu, Kar Lai Yap (National Univeristy of Singapore), [*short paper*]
- **The Personal Sensor Network: a User-Centric Monitoring Solution**, Gianni Giorgetti (Universita' di Firenze), Sal Mastroianni, Jonathan Lewis (Embedded Systems Research, Motorola Labs, Tempe, US), Gianfranco Manes (Universita' di Firenze), Sandeep Gupta (IMPACT Lab, Arizona State University), [*short paper*]

11.00 am - 11.30 am **Coffee Break**

11.30 am– 12.30 am **Panel Session, chaired by Prof. Gianfranco Manes, University of Florence**

12.30 am– 13.00 am **Conclusion and directions for next year conference**

1.00 pm - 2.30 pm **Lunch**