

CALL for PARTICIPATION

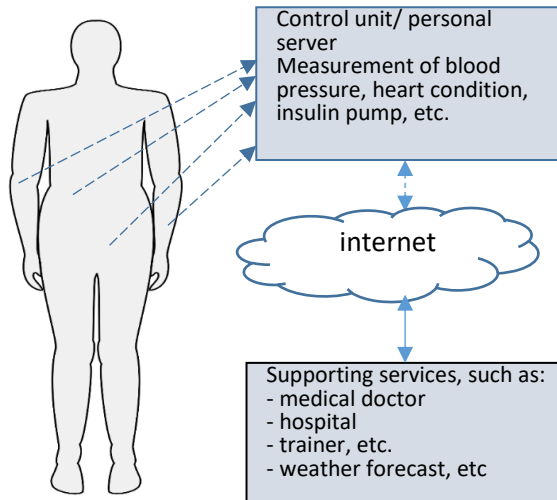
Workshop on SmartBAN, a dedicated Body Area Network system investigated and developed under auspices of the European Telecommunications Standards Institute, ETSI

Workshop organized in conjunction to ISMICT 2017, Lisbon, Portugal, February 6-8, 2017

Scope of the Workshop

Today's body monitoring equipment for the monitoring of the medical status of the human body for health, physical condition, sport and safety conditions for emergency workers are based on applying wireless connectivity between medical devices such as sensors and actuators and a data collection/interpretation system.

The network of sensors, actuators and communication services performing specific body monitoring is called a



a Body Area Network (BAN). When wireless communication technologies are applied for the communications between the sensors, actuators and data hub, the system is called a Wireless Body Area Network (WBAN).

Distinct features of a WBAN are easiness of access, secure operation, minimal listening, reliable data transfer, supported by a standardized communication interface and protocol between the actors in the system.

A well-known protocol in WBAN communications is IEEE 802.15.6. Starting with a workshop at BODYNETS 2012 a number of academic and industrial stakeholders started research on the development of an alternative protocol with dedicated specifications for medical applications. The work is done under auspices of the European Telecommunications Standards Institute ETSI under the working name "TC SmartBAN".

Key feature for SmartBAN is low power consumption, for that purpose dedicated MAC and PHY layers were

developed. Other key features are the possibility to support IoT approaches.

In the workshop we will discuss actual needs for WBAN's and present the SmartBAN concept and performances, the latter also in relation to other WBAN protocols.

We expect contributions from (future) WBAN applicants in a wide area such as *medical care, elderly care, prevention and diagnostics, sports, etc. and scientists active in this area*. As such, the participation of medical/technical health researchers, industry and SME companies is highly appreciated. Expert researchers, are invited to make a condensed presentation of their results and end-users are invited to present a concise overview of needs and requirements. Presentations are sought in the following areas:

Needs for applied Wireless Body Area Networks	IoT techniques in WBAN
More	M2M approaches
	More

Invited Expert Talks

The workshop discussions will be accompanied by two invited expert presentations.

Expert Talk: "SmartBAN", an low power MAC/ PHY BAN protocol	Expert Talk: Radio research in SmartBAN In the context of SmartBAN experimental research to the coexistence of common wireless devices have been carried out. Empirical measurements were carried out in academic hospitals, offices and home environments in Italy and Finland.
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Workshop Organization and Participation

The workshop will be organized as part of ISMICT 2017, Lisbon, Portugal, February 6-8, 2017.

Active participation of industries/SME's active –or interested- in the BAN arena and users of WBAN technology is highly appreciated. Participation is free for ISMICT 2017 participants. One day registration for the conference to join the workshop is possible.

Reviewed participant contributions will be published in IEEE Xplore. More information on participation:

<http://www.ismict2017.org/>

<http://www/hermes-europe.com/ISMICT2017>

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