As healthcare solutions and augmented monitoring of human mobility overlap with the new concepts of the Internet of Things (IoT), an emerging area of interest leverages sensor networks that monitor personal health data and human activity. This paradigm effectively connects the human body to the Internet, also known as the Internet of Bodies (IoB). The Internet of Sports (IoS) further defines IoB for devices and software that monitor human activity in the fitness and competitive sports domain. The advanced capabilities and performance of these high-tech biological devices opens a full array of opportunities and challenges as health care professionals develop the next generation of medical solutions and assistive technologies. Although there is an increasing number of IoB applications associated with personal mobile devices, there are also new and exciting devices, such as smart contact lenses for adapted vision correction, cochlear implants for enhanced hearing, and electronic pills that monitor your internal organs.

Scope of Interest

Internet computing, software engineering, human-computer interaction, and data and networking technologies are essential to the creation of next-generation IoB/IoS/IoT technologies. This special issue aims to collect the most recent practical and theoretical advances to IoB/IoS, including cutting-edge techniques for system development/implementation, networking approaches, privacy and security considerations, and human-sensor interactions.

Topics of interest include but are not restricted to:
* Internet of Bodies (IoB) or sensor networks supporting human-oriented sensing/functions
* Internet of Sports (IoS)
* Sensor networks for biological monitoring and enhancement
* Security and privacy for IoB, IoT, and IoS
* IoB/IoS-enabled innovation and entrepreneurship
* IoB/IoS applications and services
* Experimental results and deployment scenarios
* Electronics and signal processing for IoB/IoS/IoT
* Connectivity and networking

Important Dates
* Paper submission due: 13 January 2020
* First-round review due: 11 February 2020
* Revision due: 13 April 2020
* Final decision notification: 3 May 2020
* Camera-ready submission due: 1 June 2020
* Publication: July/August 2020

Submission Guidelines
All submissions must be original manuscripts of fewer than 5,000 words, focused on connected health technologies. All manuscripts are subject to peer review on both technical merit and relevance to IEEE Internet Computing’s international readership, primarily practicing engineers.
and academics who are looking for material that introduces new technology and broadens familiar identity with current topics. We do not accept white papers, and papers that are primarily theoretical or mathematical must clearly relate the mathematical content to a real-life or engineering application. To submit a manuscript, create or access an account on ScholarOne. All submissions must comply with IEEE Internet Computing’s submission guidelines and will be reviewed by research peers.

Questions?

Contact the guest editors at ic4-2020@computer.org

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