Nowadays, the emerging technology and innovation on sensing technology, data computing, and artificial intelligence (AI) has accelerated the development of the smart healthcare. The novel sensing materials, mobile communication systems, as well as remote and wearable sensors enable seamless, real-time, long-term and/or comfortable monitoring of vital health-related human data including electronic health records, video/audio data, electroencephalography, electrocardiography, respiration, blood pressure, temperature, and blood oxygen saturation, etc. In addition, AI including, for example, traditional machine learning, deep learning algorithms, and expert systems, are all paving the way for dealing with the tremendous challenges on high-complexity biomedical data (such as heterogeneous data, imbalanced data, missing data, and high dimensional data).

Considering of the achievements in these technologies, this thematic issue aims at attracting and highlighting the diverse advances and the latest developments and emergent technologies in healthcare applications concerning remote human data monitoring and computing, physiological signals sensing, wearable biosensors and robotics, intelligent computing and AI, etc.

Topics include but are not limited to:
- Novel sensing materials and technologies for physiological signals measurement
- Flexible, printed, and biocompatible electronics
- Wearable biosensors and robotics for healthcare monitoring
- Remote sensing and monitoring systems for healthcare
- Internet of Things (IoT) based healthcare monitoring systems
- Security and privacy issues in healthcare
- Cloud computing techniques in healthcare
- Signal processing and data computing for medical applications and healthcare
- Artificial intelligence for medical applications and healthcare
- Facial expression analysis & detection, body pose detection, and human tracking for healthcare
- Video and audio based health monitoring
- Data collection, curation and applications of electronic health records
- Self-care and self-monitoring systems
- Smart computing and methods to deal with medical data quality
- Multi-modal (e.g., visual, verbal, physiological, electronic health records) data fusion for health informatics
- Applications on healthcare and medical informatics
Notes for Authors
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