

IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS

J-BHI Special Issue on “Enabling Technologies for Next Generation Telehealthcare”

Nowadays, all over the world, the number of Information and Communication Technology (ICT) investments in health and well-being is rapidly increasing. In this context, there is a growing interest about telehealthcare that allows the provisioning of various kinds of health-related services and applications over the Internet. The main benefits of telehealthcare are: it reduces the risk of infection because patients can make use of remote healthcare services directly in their homes without the need to physically move in clinical centers; it can optimize healthcare workflows; it pushes down clinical costs; it improves the quality of life of both patients and their families. Telehealthcare solutions are typically aimed at tele-nursing, tele-rehabilitation, tele-dialog, tele-monitoring, tele-analysis, tele-pharmacy, tele-trauma care, tele-psychiatry, tele-radiology, tele-pathology, tele-dermatology, tele-dentistry, tele-audiology, tele-ophthalmology, etc. In recent years the rapid advent and evolution of emerging ICT solutions (such as Internet of Things (IoT), Cloud/Edge/Fog computing, Artificial Intelligence (AI), Blockchain, etc.) are revolutionizing the whole telehealthcare sector.

This special issue aims to attract contributions from both academic and industrial organizations focusing on the application of such an emerging ICT for addressing Telehealthcare issues.

Topics of interest include, but are not limited to, the following:

- Emerging architectures and technologies for telehealth;
- Computer-aided clinical diagnosis and therapy;
- Networked applications for telehealth;
- Medical signal and data processing;
- Algorithms for decision support and therapy improvement;
- Artificial Intelligence applications for telehealth;
- Advanced security techniques for telehealth.

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