



CALL FOR PAPERS

Due to the advances of mobile and cloud computing and big data analyses, the delivery of telecardiology services in the fingers has become possible. As we hope to provide patients and their families with faster, smarter, and more effective treatment through wearable and implantable technology, we face several challenges that are yet to be overcome. For example, scientists and clinicians need to consider the psychological aspects of patients and families and the process and outcomes of shared medical decision, along with the changes of doctor-patient contact and doctor-patient relationship. The promotion of telemedicine is not only through new technology, but, rather, through the innovative organization of the healthcare and management systems.

The objective of this special issue is to present not only innovative engineering technology and new clinical applications on telecardiology, but also human-factor perspectives and the organization of healthcare systems. Technical-based and clinical case study based papers are both welcome.

Potential topics include, but are not limited to:

- ▶ Psychological aspects of doctor-patient relationship in telemedicine
- ▶ Human-factor analysis of telecardiology services
- ▶ Alarm management and ambient intelligence in telecardiology
- ▶ Data interchange standardization and interoperability
- ▶ Risk and benefit assessment methodologies and certification
- ▶ Wearable devices for telecardiology
- ▶ Implantable devices and ECG remote monitoring
- ▶ Heart sound in mobile applications
- ▶ Echocardiography in mobile applications
- ▶ ECG/HRV in sudden cardiac death risk stratification
- ▶ Cardiovascular telerehabilitation
- ▶ Big data analysis and applications on cardiovascular disease management

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