

Special Issue on  
**Healthcare Services and Applications in Big Data  
Environments**

# CALL FOR PAPERS

Healthcare services and applications with big data analysis and technologies are an emergent and growing area. The development and applications of big data analysis enable organizations to provide intelligent, personalized, and reliable healthcare services through a comprehensive analysis of individual data. These services and applications include wearable devices, location-based healthcare service systems, disease prediction systems, and data-based medical instrumentation systems. However, there are also many technical, managerial, and social challenges when data are employed to develop healthcare services and applications. For example, patients may have concerns on health data privacy and security. How to effectively acquire, store, and utilize high-quality data to develop healthcare services and applications is another challenge.

This special issue aims to publish high-quality research papers addressing not only innovative healthcare technology, applications, and services based on big data analysis and techniques, but also technical and managerial approaches, methodologies, and solutions that overcome the challenges of the application of big data in healthcare services. We welcome any conceptual, empirical, technical, and case study based papers.

Potential topics include but are not limited to the following:

- ▶ Big data innovation in healthcare
- ▶ Telemedicine services and applications based on big data
- ▶ Intelligent healthcare services and management systems based on big data
- ▶ Location-based healthcare service and applications based on big data
- ▶ Disease prediction technologies and systems based on big data
- ▶ Wearable technologies and applications based on big data
- ▶ Personalized healthcare services and applications based on big data
- ▶ Benefit and risk analysis on the application of big data in healthcare services and applications
- ▶ The adoption and usage of healthcare services and applications based on big data
- ▶ The value of big data in the healthcare industry
- ▶ Customer value of health based on big data
- ▶ E-Health based on big data
- ▶ Mobile health based on big data
- ▶ Electronic medical records based on big data
- ▶ Healthcare big data collection and processing
- ▶ Healthcare data privacy and security
- ▶ Healthcare data sharing and storage
- ▶ Healthcare data mining
- ▶ Healthcare data standardization

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