

**Call for Papers**  
**Special Issue on**  
**Multimedia for Smart Healthcare**  
Springer Multimedia Tools and Applications  
Editor-in-Chief: Borko Furht  
Guest Editor: M. Shamim Hossain

## Motivation

With the advancement of smart sensorial media, objects, and technologies, “Smart healthcare” is getting tremendous attention from the academia, the governments, the industry, and from the healthcare community. Multimedia can play a significant role in the smart healthcare by offering better insight of heterogeneous healthcare multimedia content (e.g., X-ray, ECG, MRI, ultrasound image, clinical notes, claims, and so on) to support affordable and quality patient care. While researchers have been making advances in the study of multimedia tools and healthcare services individually, a very little attention has been given making cost effective and affordable smart healthcare service. Multimedia-based smart healthcare has the potential to revolutionize many aspects of our society, however, many technical challenges need to be addressed before this potential can be realized. Some of these challenges include: How to develop rich and real-time multimedia services or application for smart healthcare solutions? How multimedia technologies can assist with right patient care at the right time and in the right place? How rich multimedia computing can facilitate healthcare data representation, storage, analysis and integration for effective smart healthcare solutions?

This special issue aims to report high quality research on recent advances in various aspects of multimedia technologies in healthcare services, more specifically to the state-of-the-art approaches, methodologies and systems in the design, development, deployment and innovative use of multimedia systems, tools and technologies for providing insights into smart healthcare service demands. Authors are solicited to submit complete unpublished papers in the following topics. Topic includes but not restricted to:

- Smart healthcare monitoring
- Security and privacy of smart healthcare media data
- Media recommendation for smart healthcare
- Smart diagnosis and predictive evaluation for smart healthcare
- Smart healthcare media data processing
- Media sharing and tagging for smart healthcare
- Medical image/video processing and visualization of smart systems for healthcare
- Media cloud applications for smart home healthcare
- Innovative services, systems and application for smart healthcare based on multimodal sensors and smart objects
- Smart home healthcare for disables or elderly people
- Multimedia big data analytics for smart healthcare
- Smart patient condition screening, visualization and monitoring
- Smart patient care with multimedia technology

## Important Dates

- Paper submission due: February 15, 2017
- First-round acceptance notification: April 30, 2017
- Revision submission: May 30, 2017
- Notification of final decision: July 15, 2017
- Submission of final paper: August 30, 2017
- Publication date: 3rd quarter of 2017(tentative)

## Submission Details

All the papers should be full journal length versions and follow the guidelines set out by Multimedia Tools and Applications: (<http://www.springer.com/computer/information+systems/journal/11042>). Manuscripts should be submitted online at <https://www.editorialmanager.com/mtap/> choosing “1065 - Multimedia for Smart Healthcare” as article type, no later than February 15, 2017. All the papers will be peer-reviewed following the MTAP reviewing procedure. Please note that papers based on conference papers must present significant new contributions to the research. The contributions must be identified in the authors’ cover letter.

## Guest Editor

M. Shamim Hossain  
College of Computer and Information Sciences (CCIS)  
King Saud University, Riyadh, KSA  
E-mail: [mshossain@ksu.edu.sa](mailto:mshossain@ksu.edu.sa)