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Call for Papers

Special issue on Digital tools for Healthcare

Nowadays digital based healthcare is furnished with various exciting applications and encouraging achievements. The modern health care industry fuelled by increasing use of medical devices and sensors, becomes one of the world's largest and fastest-growing industries. Digital refers to different types of multimedia content (e.g., text, images, audios and videos), which are accessed via heterogeneous devices such as mobile phones, portable devices, and smartphones. Currently, as the healthcare sector is increasingly dependent on multimedia services and applications, many challenges remain unsolved for the successful deployment of multimedia services in order to have a balance between power-limited devices and resource hungry medical digital content. As an ever-increasing important multidisciplinary area which offers tremendous opportunities and excellent facilities to doctors, healthcare professionals and other eligible users to enhance performance by fully utilizing the rich health related multimedia data for effective decision making.

The potential topics included, but not limited

- Multimodal medical signal processing: Data acquisition, representation, fusion, classification
- Digital service composition in healthcare
- Multimedia information systems in healthcare
- Context-aware multimedia-health services and application
- Deep learning analytics for mobile multimedia-based healthcare or food recognition
- Multimedia for Computer-aided diagnosis and monitoring
- Intelligent agents for personalized healthcare
• Multimedia Health record management
• Real time multimedia-control for mobile healthcare
• Multimedia enhanced learning, training and simulation for health
• Cloud media sensing for health care and sports
• Resource allocation in multimedia healthcare
• Multimedia signal acquisition based on compressive sensing
• Multimedia content indexing and retrieval for e-healthcare

Important Dates

Full paper submission: 30 June, 2019

Notification to authors: 30 July, 2019

Final version submission: 30 Oct, 2019

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