A medium to disseminate novel experimental and theoretical research results in the field of biomedicine, biology, clinical, rehabilitation engineering, medical image processing, bio-computing, D2H2, and other health related areas.

Call for Papers

SPECIAL ISSUE ON


Aim and Scope

Multimedia tools including high resolution still image, audio and video are being widely used in healthcare domain for improving the quality of patient care. However, increasing amount of multimedia content associated with the computations, storage and communication is raising requirements for on-demand access based services and shared pool of resources for effective decision making. Cloud computing serve the purpose by providing ubiquitous, flexible, scalable and agile data acquisition, computing, storage and communication. However, multimedia based applications in combination with Cloud capabilities also enhance technical issues (seamless access, Quality of Service (QoS), dynamic resource allocation etc.) in different domains including e-healthcare, video streaming, rehabilitation exercise and sports activities.

Contributions in state-of-the-art systems and methodologies is required to promote the innovative use of multimedia-based Cloud services for healthcare. However, many healthcare organizations across the world are not in a favor of adapting Cloud in healthcare applications because of the shortcomings associated with it in terms of security of the infrastructure and the privacy of patient specific information. Moreover, centralized Cloud based systems are susceptible to service unavailability failures and insider attacks. Security concerns are needed to be analyzed in terms of confidentiality, availability, integrity, auditing and compliance in order to provide promising features so that the sensitive and classified data of the users can be stored. It is expected that majority of the vendors would set up their own private Clouds in the future which would require offering Infrastructure-as-a-Service (IaaS) to the stakeholders to reduce the costs and to simplify the application management. As a consequence, a major portion of healthcare services would move
over the Cloud which would compel healthcare organizations to focus on providing secure and cost effective solutions. The service connections can be provided with high levels of security and by precise monitoring of the usage endpoints including users and the devices to ensure accurate billing, usage and metering information for the individual services.

This special issue mainly focuses on security and privacy of multimedia-based cloud computing for healthcare systems, addressing both original algorithmic development and new applications. We are soliciting original contributions, of leading researchers and practitioners from academia as well as industry, which address a wide range of theoretical and application issues in multimedia based cloud computing for healthcare systems.

**Topics of Interest**

The topics relevant to this special issue include but are not limited to:

- Security and privacy of multimedia-based cloud computing for healthcare systems
- Security of cloud computing based healthcare Systems
- Security of cloud-based multimedia processing for healthcare
- Security and privacy of cloud-based applications for managing medical media data
- Security of mobile multimedia cloud for healthcare
- Cloud based model for speech-enabling healthcare
- Security of real time analytics on streaming medical media data
- Cloud-based health monitoring and applications
- Security of cloud-based remote display Protocol for healthcare
- Media-cloud based resource allocation approaches
- Deep learning modals for cloud computing based healthcare Systems

**Coherent list of Topics**

Papers must be tailored to the emerging fields of multimedia-based cloud computing for healthcare systems, through deployments models, challenges and novel solutions. The editors maintain the right to reject papers they deem to be out of scope of this special issue. Only originally, unpublished contributions and invited articles will be considered for the issue. The papers should be formatted according to the journal guidelines.

**Submission Instructions**

READ THIS NOTE BEFORE SUBMISSION:

Authors are encouraged to discuss with a guest editor to determine the suitability of their intended submissions. Before submission authors should carefully read over the journal’s Author Guidelines, which are located at http://www.aspbs.com/jmihi/inst-auth_jmihi.htm. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at http://mstracker.com/submit1.php?jc=jmihi, according to the following timetable:

Original, high-quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought. Papers will be peer-reviewed by
independent reviewers and selected based on originality, scientific quality and relevance to this Special Issue. The journal editors will make final decisions about the acceptance of the papers.

Important Dates

- Manuscripts Due: May 30, 2020
- First Decision Date: Aug. 31, 2020
- Revision Due: Nov. 15, 2020
- Final Decision Date: Dec. 01, 2020
- Final Paper Due: Jan. 30, 2021

Guest Editors

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