Call for Papers

Cognitive Computing for Internet of Health Informatics Things

Scope:

The cognitive computing is computational technology that provides an artificial physical response, permitting a subject to test events and various activities comparable to those that can be established in reality. By employing sensors and intelligent algorithms, the machines or computers can sense similar to human behaviour (seeing, hearing and even feeling).

In recent years, the Internet of Health Informatics Things (IoHIT) support the out-of-hospital concept that modify and provide higher care standards. This is executed with individual data-driven treatment schemes and high performance optimised devices customised to act as individual requirements.

The IoHIT are designed mainly to sense the individual health status data where it can be sent to the clinical for interpretation issue. This will be a crucial especially in the lake of physician’s number. With the aid of cognitive algorithms, a pre-learned intelligent system can be developed for improving the diagnosis process and automate it. Moreover, the valuable information from the clinical database is used for individual health prevention and protection through emergency situations.

However, the IoHIT data analysis and managing still represent the main trend due to a huge number of devices that connect to the server environments which generate a significant medical data. Besides, the
security of these data represents another challenge, where the medical data is highly classified and need to be guarded. Therefore, there is a necessity for providing stable, efficient and scalable intelligent algorithms that lead to additional sophisticated solutions and that can make operative decisions in developing IoHIT.

This special issue is based on the developing of technical improvements considered in the process of intelligent systems by using cognitive techniques, IoHIT deep learning and machine learning techniques for multimodal biomedical data processing, non-invasive interpretation and that has shown to be relatively efficient for improving patients interpretation quality. Furthermore, it objects to highlight the challenges of developing and proposing new ideas regarding the out-of-hospital dedicated systems directions.

**Topics of Interest**

Topics to be covered include, but are not limited to:

- Biomedical big data analysis
- IoHIT data encryption and security
- Data storage scheme for IoHIT
- Cloud Security for IoHIT
- The architecture of cognitive systems
- IoHIT Cloud technique based and intelligent systems
- Deep learning interpretation for Health Informatics
- Optimised wearable IoHIT schemes
- Human-Machine Interactive Systems
- Health data mining in IoHIT
- Machine learning for decision support systems in IoHIT
- Data and information management in IoHIT
- Performance assessment of IoHIT architectures, services, and protocols
- Security and Privacy in IoHIT

**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**

- Paper submission due: Mar 31, 2019
- First-round acceptance notification: Jun. 31, 2019
- Revision submission: Aug 1, 2019
- Notification of final decision: August 31, 2019
- Publication date: September 2019

**Guest editors**

Dr. Enas Abdulhay (Guest Editor)
Jordan University of Science and Technology, Jordan
abdulhayenas@gmail.com

**Manuscript-Processing Fees:**

All new manuscripts submitted to this journal will be subjected to a Manuscript-Processing Fees. Research article publishing is not without occurring costs and the costs have been steadily increasing. To defray part of the publication cost, the journal will charge manuscript-processing fees, to be paid by the authors or their affiliated research institutions. The publication fee will be used to defray part of the occurring expenses associated with manuscript processing, editorial work flow, typesetting, proofreading, printing, online-hosting, and archiving. Authors or their affiliated research institutions are required to pay US$1080 for their articles for a special issue article from all Countries. The authors will receive the PDF version of their research papers in final form. When submitting a manuscript through online, it will be processed with an understanding that the corresponding authors fully agree to pay all manuscript-processing fees upon acceptance. The author who submits the manuscript to the journal is fully responsible for the manuscript-processing fees. Accepted peer reviewed manuscripts will not be processed and forwarded to production until all fees are paid in full to the publisher. Publisher will issue an invoice of manuscript-processing fees after a manuscript has been accepted for publication. Corresponding author will be asked to submit a signed Copyright Transfer Agreement (CTA) along with manuscript processing fees.