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

Medical & Health Care Informatics in Transforming Health Care

The healthcare industry has been radically transformed by new technology and data. Specifically, it led to the burgeoning importance of health informatics. Patients have lamented inefficient care by individual physicians who were not privy to results and diagnoses from previous health providers due to lack of communication between them. They were unhappy when they had to repeat the information to different health providers, which is further aggravated by their difficulties in obtaining test results from different physicians. Therefore, Health Informatics (also known by its various names, such as healthcare informatics, medical informatics, nursing informatics, clinical informatics, or biomedical informatics) is basically information engineering referring to the management and use of patient healthcare information. Data is collected and kept in electronic health records (EHRs), online patient portals and mobile medical devices. Health information of patients is then shared across disparate providers to ensure collaborative care among the physicians.

Additionally, data collected is used to develop best practices to boost patient outcomes. However, volume of data can be overwhelming and the challenge is capture only relevant health information. This is where health informatics has become vital. Defined by American Medical Informatics Association (AMIA) as “a scientific discipline that is concerned with the cognitive, information-processing, and communication tasks of healthcare practice, education, and research, including information science and technology to support these tasks using computers and computer technology,” health informatics has assumed great importance in the current healthcare systems.
The AMIA further identifies clinical informatics as utilising informatics and health information technology (HIT) in healthcare service provision. Other areas include clinical research informatics, consumer health informatics, public health informatics, biomedical informatics, imaging informatics and nursing informatics. The healthcare informatics experts are responsible in providing all relevant information for treatment, process or practice. They additionally assist in using the data to implement decisions and ensuring best practices. It is important to note health informatics has subspecialties.

This field is multidisciplinary and innovative in terms of challenging norms that have defined traditional health settings. A greater collaboration exists between different healthcare providers and related systems, such as clinical, financial and administrative. These innovative practices are addressing healthcare needs at macro (organisation) and micro (patient) level.

The history of healthcare Informatics goes way back to 1950s when the now National Institute of Standards and Technology embarked on a programme to collect dental data. It has evolved today into a growing discipline due to rapid use of technology in the healthcare industry. In order to boost efficiency, healthcare informatics has also begun to use handheld devices, consumer devices, web portals and various data collection and reporting systems.

Health informatics professionals are essentially intermediaries between the clinicians and health IT departments. They collaborate with health service providers and industry leaders to ensure smooth workflow, sound financial reporting as well as development of operational and clinical best practices. This is aimed at creating sustainable changes in healthcare to benefit all its stakeholders and ensure greater and improved collaboration between clinical, operational, technical and financial components of the healthcare team. This is transforming healthcare to result in better patient outcome and cost-effective care. This special issue receives original, high quality and best contributions in all aspects of HIT. The list of possible topics includes, but is not limited to:

- Health Care Management and Technology Adoption
- E-Learning in Health Care Settings
- Decision Modeling and Natural Language Processing
- Disease-based or Specific Clinical Issues
- Health Information Safety and Security

**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**

Submission Deadline: **31st Oct. 2019**.

Final Acceptance: **Dec. 2019**.

**Guest Editors**

**Prof. Dr Cai Tay (Lead)**

**Vice President of Shanghai Jiaotong University, China**

Email: cai.tay@qq.com

He is a professor of medicine and has lot of titles, such as Vice chairman of Shanghai Political Consultative Congress, Vice President of Shanghai Jiaotong University, President of Shanghai graduate school of Pediatrics and so on.

During November, 1995 and May, 1998, he went to visit Children's Hospital of Harvard Medical School in Boston, Massachusetts, USA, General Hospital and the Massachusetts Institute of Technology. USA.

Prof. Cai received many awards: The Fifth for Youth Science and Technology of China award, Seven-time winner (2nd or 3rd step) of State Education Commission, Ministry of Education, Ministry of Health, Shanghai City Scientific and Technological Progress Award, Minister of Health of the first annual Young Star of Medical Technology and so on.

**Prof. Dr Jianhua Zhang**

Department of Biomedical Engineering, Zhengzhou University, China

Email: jianhua@umt.edu.pl
He graduated from Xi'an Jiaotong University in 2004, then he worked in the Department of Biomedical Engineering of Zhengzhou University since 2004 and engaged in teaching and research. He has presided over or participated in the research of nearly 20 national, provincial and ministerial projects such as the National Natural Science Foundation of China, the Innovation Fund of the Ministry of Science and Technology, the National High Technology Research and Development Program, the Science and Technology Cooperation and Open Project of the Provincial Academy, and the medical science and technology research.

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