



Journal of Medical Imaging and Health Informatics (JMIHI)

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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(Distributed Diagnosis and Home Healthcare), and other health related areas. Different medical imaging modalities used for extraction of information from MRI, CT, Ultrasound, X-ray, Thermal, Molecular and fusion of its techniques will also be the focus of this journal. JMIHI publishes Original Research Articles, Reviews, Technical Notes and Rapid Communications.

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Call for Papers

Special issue on

Anatomy and surgical procedures based on medical imaging and health informatics technology

Journal of Medical Imaging and Health Informatics (JMIHI) invites authors to submit articles on the new development of anatomy and surgical procedures that is promoted by the medical imaging and health informatics technology.

Modern medical imaging and health informatics technology plays a more and more important role in the anatomy and surgical procedures. It utilizes medical images and health information from patients to diagnose disease, detect focus and guide surgery and so on. Especially during surgery and dissection, medical imaging technology can calculate the positions of focus, the curve and angle for the track of operating scalpel, health informatics technology can figure out the status of human body. The information can be send to the monitors in real time, in order that the doctors are able to know the position relationship between medical instruments and anatomical structures and make surgery safe, successful and minimally invasive.

In medical imaging and health informatics field, several research areas have promoted the rapid development of anatomy and surgical procedures. Based on the data from image scanning in specific patient, the individualized anatomical models are obtained by 3D printing technology. The doctors can simulate the surgical procedure before real operation, so

as to improve the safety and accuracy of the operation. By the more precise image scanning methods, more anatomical safe planes were found, and new minimally invasive surgery can proceed through these new gaps. New radiomics which is based on the precision medical imaging and big data in health information have been used in diagnosis, assessment of prognosis and prediction of therapy response for different diseases. The functional magnetic resonance and computational fluid dynamics makes the anatomy from the morphological description to the functional analysis, which provides a reliable basis for design of surgical procedures.

This special issue focuses on the relevant efforts on the anatomical progress and surgical update. The main goal of this special issue is to provide an overview of the current state-of-the-art advances in modern medical imaging and health informatics technology, with a special emphasis given to its application in diagnosis of disease and surgical treatment over the past decade.

Potential topics include, but are not limited to:

- Combining medical imaging and health informatics technology
- Computing techniques towards surgical procedures
- Imaging anatomy and minimally invasive anatomy
- Interdisciplinary sciences of imaging medicine, computational fluid mechanics, anatomy and surgical procedure
- Clinical application of 3D printing technology
- Application of functional imaging in the diagnosis of disease

Submission Guideline: Authors must mention in their cover letter for each SI manuscript that the particular manuscript is for the theme and name of Guest Editors of SI consideration so that the Guest Editors can be notified separately. Guidelines for preparation of the manuscripts are available at the journal website http://www.aspbs.com/jmihi/inst-auth_jmihi.htm **READ THIS NOTE BEFORE SUBMISSION:** 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:

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Manuscript due	01 September 2018
First round of revised manuscript due	30 October 2018
Second round of revised manuscript due	30 November 2018
Third round of revised manuscript due	31 December 2018
Camera-ready version due	01 January 2019
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