Call for Papers

Special Issue on

Advanced Emerging Computational Intelligence Technology for Medical Image and Health Informatics

Due to the extensive use of various medical information systems, large quantities of medical data / clinical information, e.g., multiple-modal medical images, standard electronic medical records, etc., have been collected in many hospitals and institutes. Most existing analysis methods, however, use these data separately, ignoring the relationship among potentially related categories of medical data. Some emerging computational intelligence technologies, e.g., transfer learning, multi-view learning, deep learning, can be used in process the medical image and health informatics. For example, transfer learning as one countermeasure capable of improving the process performance on target data set (target domain) by using the beneficial information acquired from other associated data sets (source domains), is worthy of in-dept use in medical applications. This is good at improving the accuracies of clinical diagnoses as well as medical decisions. Also, methods based on transfer learning are able to boost the service quality as well as competitive advantage of hospitals to a great extent.

This special issue focuses primarily on novel theories / methods using some emerging computational intelligence technologies and proposed for medical imaging and health information process, such as the transfer classification, transfer clustering, transfer regression, multi-view classification, multi-view clustering, multi-view regression, and transfer-deep learning based methods. Our purpose is to review the new progress and achievements on transfer learning and their applications in medical imaging and health informatics in recent years.
Topics of interest for this special issue include, but are not limited to:
- Emerging computational intelligence technology in clinical imaging process and analysis
- Emerging computational intelligence technology in medical signal processing
- The clinical decision support system (CDSS)
- Intelligent health management
- Precision medical treatment
- Data mining based on electronic medical records
- Comparative effectiveness research
- Regional disease surveillance
- Transfer learning in clinical treatment decision
- Social media analysis for health using emerging computational intelligence technology
- Mental health data analytics
- Social media and intelligent sensing blog platforms
- Emerging computational intelligence technology algorithms and models

Schedule:

**Paper submission due: Feb. 28, 2021**

First notification: May 30, 2021

Final decision: July 30, 2021

Publication date: Late 2021

**Guest editor**

(1) **Dr. Yizhang Jiang**, Jiangnan University, China. yzjiang@jiangnan.edu.cn

(2) **Dr. Kaijian Xia**, School of Information and Control Engineering, China University of Mining and Technology, China   lb17060008@cumt.edu.cn

**Submission Instructions:**

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](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?ic=jmihi](http://mstracker.com/submit1.php?ic=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.

Note: The publisher has implemented with immediate effect that all papers submission must provide its respective plagiarism report on the value of similarity index (to be less than 12%): without this, no papers will be processed.

**Manuscript-Processing Fees:**

All new manuscripts submitted to this journal will be subjected to a Manuscript Processing Fee. 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 workflow, 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. The Publisher will issue an invoice of manuscript processing fees after a manuscript has been accepted for publication. The Corresponding author will be asked to submit a signed Copyright Transfer Agreement (CTA) along with manuscript processing fees.

Name: Prof. **Yizhang Jiang**

Email: yzjiang@jiangnan.edu.cn

Affiliation: Jiangnan University / School of Digital Media, China

**Short CV:**

Yizhang Jiang received the B.S. degree from the Nanjing University of Science and Technology, China, in 2010 and the M.S. and Ph.D. degrees from the Jiangnan University, Wuxi, China, in 2012 and 2015, respectively. He is currently an Associate Professor with the School of Digital Media, Jiangnan University since Jan. 2016. He has been a research assistant in the Department of Computing, Hong Kong Polytechnic University, for two years. His research interests include pattern recognition, intelligent computation and their applications in medicine. He is the author/co-author of more than 50 research papers in international/national journals, including IEEE Trans. on Fuzzy Systems, IEEE Trans. on Neural Networks.
and Learning Systems, IEEE Trans. on Cybernetics, ACM Trans. on Multimedia Computing, Communications, and Applications and Information Sciences. He is an Associate Editor of IEEE Access (2019-). He has served as a reviewer of several international conferences and journals, such as ICDM, TKDE, TFS, TNNLS, Pattern Recognition, and Neurocomputing. He has also served as a leader guest editor or guest editor of several international journals, such as IEEE/ACM Transactions on Computational Biology and Bioinformatics, journal of Ambient Intelligence and Humanized Computing, and Computational and Mathematical Methods in Medicine.


