



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, biocomputing, D2H2, and other health related areas.

Call for Papers

Special Issue on

Advanced Fuzzy Logic System and Neutrosophic for Medical Imaging and Applications

The most serious issue that concerns the world during this period is the outbreak of the novel Coronavirus (COVID-19). The rapid spread of the virus around the world poses a real threat to all countries, because of that, researchers must pay attention to studying the details of this calamity. COVID-19 symptoms may be like other viral chest diseases in some of the symptoms that may cause the doctor's uncertainty in making the correct diagnosis decision due to the novelty of this virus. The recent diagnosis of COVID-19 is based on real-time reverse-transcriptase polymerase chain reaction (RT-PCR) and regarded as the gold standard for confirmation of infection. It has already been widely recognized that fuzzy logic system and modelling techniques can potentially have a substantial role in streamlining and accelerating the diagnosis of COVID-19 patients. Numerous open dataset enterprises have been set up over the past weeks to aid the researchers in developing and check methods that could contribute to countering the Corona pandemic. To report the above unique problems in diagnosis of COVID-19, pioneering techniques should be developed.

Neutrosophic set theory, as it shows a huge potential in solving many computers problems related to the detection, and the classification domains. The neutrosophic set in this study is used for converting the medical images from the grayscale spatial domain to the neutrosophic domain.

This special issue focuses on novel fuzzy logic imaging analysis techniques related to COVID-19. This special section provides a perfect platform to submit manuscripts that discuss the prospective developments and innovative ideas in deep learning techniques in the diagnosis of COVID-19.

This special section will focus on the following topics:

- Advanced fuzzy logic system based medical image analyses
- Advanced fuzzy modelling techniques for diagnostic systems
- Advanced deep fuzzy model techniques for lung and infection segmentation

- Advanced fuzzy learning-based CT assessment
- Advanced fuzzy learning techniques based on CT images
- Early prediction of virus based advanced deep learning methods
- Advanced Deep fuzzy techniques for tracking virus
- Advanced fuzzy learning techniques for big data analytics in covid-19
- Advanced machine techniques for predicting the long-term risk of covid-19
- Neutrosophic set significance on deep transfer learning for covid-19
- Neutrosophic logic and its applications for medical diagnosis
- Neutrosophic approach for smart medical device selection for virus detection
- Neutrosophic refined sets and their applications in disease diagnosis

Schedule:

Paper Submission Deadline: December 30,2020

Publication: 2021 or 2022

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 . 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. 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.

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Florentin Smarandache

Florentin is a Scientist, writer, and artist. Wrote in four languages: English, Romanian, French, and Spanish. He did post-doctoral researches at Okayama University of Science (Japan) (2013-2014); at Guangdong University of Technology (Guangzhou, China), 19 May - 14 August 2012; at ENSIETA (National Superior School of Engineers and Study of Armament), Brest, France, 15 May - 22 July 2010; and for two months, June-July 2009, at Air Force Research Laboratory in Rome, NY, USA (under State University of New York Institute of Technology). Graduated from the Department of Mathematics and Computer Science at the University of Craiova in 1979 first of his class graduates, earned a Ph. D. in Mathematics from the State University Moldova at Kishinev in 1997, and continued postdoctoral studies at various American Universities and Research Institutions, such as University of Texas at Austin, University of Phoenix, Arizona State University, New Mexico State University at Las Cruces, Los Alamos National Laboratory etc. after emigration. In U.S. he worked as a software engineer for Honeywell (1990-1995), adjunct professor for Pima Community College (1995-1997), in 1997 Assistant Professor at the University of New Mexico, Gallup Campus, promoted to Associate Professor of Mathematics in 2003, and to Full Professor in 2008. Between 2007-2009 he was the Chair of Math & Sciences Department.

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Karthikeyan received Ph.D. degree in Computer Science and Engineering, Manonmaniyam Sundharanar University, India. He is a guest editor for Cluster computing, Ambient intelligent and humanized computing and he is acting as a leading guest editor for more than 10 SCI indexed journals. His main area of research activity is Medical Image processing, Fuzzy logic. He has served as a reviewer for Springer, Inderscience and Elsevier journals. He has published many research articles in refereed journals like Elsevier and Springer. He is a member of IEEE, IACSIT, IAENG, SCIEI and ISTE wireless research group. He has been serving as Organizing Chair and Program Chair of several International conferences and in the Program Committees of several International conferences. Currently he is working as a Principal and professor in the Department of Computer Science and Engineering at Tamilnadu Engineering College, India.