



Journal of Medical Imaging and Health Informatics

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Call for Paper

Journal of Medical Imaging and Health Informatics

Special issue on

Application of Wireless communication for Medical Imaging and Health Informatics

The applications of wireless communication in the biomedical field are becoming increasingly important in the current scenario. Computers aid in developing a fully automated system which would help in accurate identification of abnormalities in the medical field. The accuracy of the computer aided systems is highly superior to the manual observations and hence automated systems are significantly preferred by the physicians. During the previous decade, wireless communication has emerged as potential candidates for solving complex and intricate global optimization problems which are otherwise difficult to solve by traditional methods. In present scenario Image Processing, signal processing, Industrial optimization, Control system applications and power system applications fields have challenging deeds which is to be unraveled by researchers. They are applying some soft computing methods with wireless communication techniques for solving such problems. Some popular soft computing techniques for Global

Optimization include Genetic Algorithms (GA), Differential Evolution(DE), Ant Colony Optimization (ACO), Particle Swarm Optimization (PSO), Artificial Bee Colony (ABC), Firefly Algorithm (FFA) algorithm etc. These methods have been successfully applied to a wide range of benchmark and real-world application problems. This special issue is an ideal platform for the researchers to come out with innovative ideas and approaches in the area of biomedical soft computing with wireless communication. This issue gains much importance since it directly impacts the healthcare field of the society.

The topics of this issue include but are not limited to:

- Artificial neural networks for abnormality detection in scan images such as brain, eye, lungs, blood, bone, etc.
- Wireless communication
- Telemedicine
- Bluetooth
- Mobile computing
- Fuzzy theory for abnormal region segmentation in scan images
- Medical Image denoising, noise removal, etc.
- Medical image texture analysis
- Medical image processing using evolutionary algorithms such as GA, PSO, ACO, etc.
- Biomedical signal processing
- Noise cancellation in EEG, ECG, MG, etc. signals
- Watermarking in medical images using soft computing techniques
- Medical image fusion techniques
- Medical image registration methodologies
- Image retrieval techniques
- Equalization methodologies in 1-D signals
- Hybrid approaches

- Any other area which deals with biomedical applications using soft computing techniques
- Computer-aided diagnosis systems
- Computer-aided detection systems
- Computer-aided surgery systems
- Filtering
- Noise removal

Submission

Paper should be written in English. Your paper must be formatted according to the template files. Regular papers are allowed to 8 pages in journal special issue. 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

Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at:

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Important Dates

❖ Submission of full papers:	May 1st, 2017
❖ Notification of acceptance:	Jul. 2017
❖ Camera ready papers:	Sept. 2017
❖ Publication date:	Dec. 2017

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Prof. Danilo Pelusi, Teacher in the Faculties of Communication Sciences and Bioscience and Agro-Food and Environmental Technology, his research is on coding theory and artificial intelligence. Moreover, he is interested in signal processing, patterns recognition, fuzzy logic, neural networks and genetic algorithms. Assistant Professor in Computer Science from 2009 to 2012 at the University of Teramo, he has developed research activity on control systems optimization and database management to the Astronomic Observatory Collurania "V. Cerulli" of Teramo. Reviewer of international journals and conferences, he is Editorial board member of journals "Journal of Universal Computer Science", "International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems", "Engineering, Technology & Applied Science Research", "Science Journal of Circuits, Systems and Signal Processing". Member of the PhD board in Epistemology of Informatics and Social Changes (University of Teramo), Administrator of the e-learning platform e-RID of University of Teramo from 2009 to 2012, PhD in Computational Astrophysics, he obtained the degree in Physics from the University of Bologna.

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