

Special Thematic Issue for Current Medical Imaging

Medical Data Assessment with Traditional, Machine-learning and Deep-learning Techniques

Guest Editors: Dr. Hong Lin, Dr. Suresh Chandra Satapathy, Dr. V. Rajinikanth

Aims & Scope:

This special issue titled "Medical Data Assessment with Traditional, Machine-learning and Deep-learning Techniques" aims to collect the information regarding medical data analysis, such as recording, pre-processing, post-processing, evaluation and classification to support an appropriate treatment planning procedure.

In therapeutic field, invasive and non-invasive data collection procedures are widely implemented to get the essential detail about the internal and external organs. The collected data is then processed using a traditional as well as advanced examination tools.

Data processing techniques, such as augmentation, scaling, fusion, texture investigation, pre-processing, post-processing and classification plays an essential responsibility in data analysis in clinical level in order plan for the suitable treatment process to control/cure the disease.

Traditional data inspection techniques are generally used to inspect the data with lesser complexity. If the complexity of data increases, recent methods, such as machine-learning and deep-learning methods can be adopted.

This special issue call request the authors to submit their original reviews on traditional and recent development in medical data evaluation techniques. Authors are also requested to consider the present challenges in medical data appraisal and its possible solutions.

Keywords: Biomedical image recording, image pre-processing, image post-processing, classification, disease assessment, healthcare systems.

Subtopics:

The subtopics to be covered within this issue are listed below:

- Medical image examination and Healthcare assistance: A detailed review on the traditional and recent advancement in medical data evaluation procedures.
- Medical image processing procedures: enhancement, fusion, thresholding, segmentation, texture examination, and classification
- Medical Data Analysis and Its related works.

Schedule:

- ◇ Manuscript submission deadline: 30.09.2019
- ◇ Peer Review Due: 20.10.2019
- ◇ Revision Due: 30.11.2019
- ◇ Announcement of acceptance by the Guest Editors: 25.12.2019
- ◇ Final manuscripts due: 15.01.2020

Contacts:

Guest Editors:

Dr. Hong Lin

Affiliation: Professor, College of Sciences & Technology, Computer Science & Engineering Technology, University of Houston-Downtown, Texas, USA.

Email: linh@uhd.edu

Dr. Suresh Chandra Satapathy

Affiliation: Professor, School of Computer Engineering, Kalinga Institute of Industrial Technology

(Deemed to be University), Bhubaneswar- 751024, Odisha, India.

Email: sureshsatapathy@ieee.org

Dr. V. Rajinikanth,

Affiliation: Professor, Department of Electronics and Instrumentation Engineering, St. Joseph's College of Engineering, Chennai 600119, India.

Email: rajinikanthv@stjosephs.ac.in

Any queries should be addressed to cmim@benthamscience.net