SCOPE OF THE ISSUE

Medical students, researchers, medical professionals, and radiologists always deal with different kinds of data to identify the symptoms and inferences for diagnostic procedures. Due to the tremendous advancement in image acquisition devices, the data is quite large (moving to big data), that makes it challenging and interesting for image analysis. This rapid growth in medical images and modalities require extensive and tedious efforts by a medical expert that is subjective, prone to human error and may have large variations across different expert. Machine learning is one of the fastest-growing and most exciting field, concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. A happy marriage of high-performance computing with machine learning promise the capacity to deal high dimensional medical data for accurate and efficient diagnosis. When made accessible to the right person (clinician) in the right place (point of care) at the right time (real- or near-real time), machine learning-enabled models can give clinicians more pertinent information to support their patient care decisions. By considering all rudimentary insights of the machine learning applications in healthcare, this special issue has been proposed to enable the researchers and medical practitioners to bring alternate solutions for the existing complex issues. Thereby, new approaches and products will make healthcare services into an affordable and promising sector.

TOPICS

Artificial Intelligence based mathematical approach for modelling and simulation
Bio-inspired algorithms for disease prediction and Analysis
Biomedical imaging and Data Visualization
Biomedical text mining/extraction
Brain Computer Interface for Rehabilitation Engineering.
Content based medical Image Retrieval
Deep convolutional Neural Networks for large – scale medical data set
Deep learning algorithms for object detection, image restoration, image classification
Intelligent medical information system
Knowledge based feature engineering
Soft computing based assessment of brain behavior
Sustainable intelligent systems for clinical decision support system
Knowledge discovery for evidence based medicine
Smart wearable systems
Unsupervised/supervised algorithms for medical image/signal classification

SUBMISSION INSTRUCTIONS

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. All papers are refereed through a peer review process. Authors need to prepare the manuscripts according to the rudiments of Intelligent Automation & Soft Computing journal (Autosoft Journal). Authors should submit their papers through the online manuscript portal system (http://wacong.org/autosoft/auto/index.php) and select the right special issue.

For more information, please contact the Corresponding Guest Editor Dr. Vijay Jeyakumar at vijayjeyakumar@ieee.org

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