Special Issue Proposal on Recent Research Challenges in Mathematical Methods Applied to Healthcare Informatics and Image Processing

Introduction

Computational Diagnosis is related to the development of new algorithms and techniques that can justify the behaviour of any system. If the system functions properly then the algorithm should be able to determine accurately the failure of any system and also the type of problem it will face. The computation is based on observations, which provide information about the current behaviour. Almost many individuals in worldwide will have major problems. Despite its prevalence, diagnosing any cause of illness is a major challenge in the medical field. Even though 50% of the illness and the cause for the illness are identified, researchers contributions also play a major role in Medical diagnosis. Many computational techniques are developed based on statistical and evolutionary algorithms and soft computing. It is very evident that the computational diagnosis will play a major role in developing new algorithms in future.

Healthcare Informatics and image processing is an important research area since it spans a variety of applications. Although over the past few decades there has been a rapid rise in this field, there still remain issues to address. Examples include image coding, image transmission over wireless networks, 3D image processing, feature extraction and analysis, image retrieval, motion detection, display systems, biomedical/neural imaging and analysis, and others. To deal with these issues, the use of sophisticated and robust Mathematical algorithms plays a crucial role. The aim of this special issue is to provide an opportunity for researchers and engineers to publish their latest theoretical and technological achievements in mathematical methods and their various engineering applications related to digital image processing.

This special issue is aimed at sharing the innovative ideas and algorithms mathematically and theoretically by the researchers in the Healthcare informatics and Image processing domain. We expect the young minds to contribute original research articles as well as review articles that will address about the Computational diagnosis approaches to provide a solution to the existing Healthcare Informatics and image processing issues.

Research topics includes, but are not limited to:

Healthcare Informatics
Biomedical Sciences
Evolutionary Algorithms
Bio Signal processing
Soft Computing Techniques
Imaging Techniques
Image compression
Image segmentation and enhancement
Image Retrieval and Analysis
Video Image analysis and processing

Important dates:

Manuscript Due: 30 September 2016
First Round of Reviews: 30 October 2016
Second Round of Reviews: 30 November 2016
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