Computational and Mathematical Methods in Medicine

Special Issue on
Computational Biology and Biocomputing in Biological Complex Data

CALL FOR PAPERS

Today, with the increasing development of new diseases, it is required to develop new methods to diagnose these diseases and new medicines to cure them. Biological data and biomarker discovery contributes to better understanding of proteins and molecules structures and behaviors and diagnosing and curing diseases to a large degree. The results of this special issue are applicable for medical institutions, in medicine developing incorporations, and overall in curing diseases.

The primary goal of this special issue is to exchange the latest fundamental advances in the state of the computational biology and biocomputing in biological data, biomarker discovery and practice of pattern mining algorithms, and related areas. We are interested not only in papers with strong algorithmic and modelling innovations, but also in works that have biological models, application-oriented experimental implementations, and evaluations.

Potential topics include, but are not limited to:

- ▶ Computational biomarker discovery in proteomics
- ▶ Clinical bioinformatics and translational medicine
- ▶ Machine learning in biomarker discovery
- ▶ Complex data in biology
- ▶ Biomarkers in clinical drug development
- ▶ Methodologies for genome-wide association studies
- ▶ Mathematical methods for diagnostic classifiers
- ▶ Network-based and pathway-aware biomarker strategies
- ▶ Recent advances in application of gene ontology
- ▶ Integrative approaches in functional genomics

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/cmmm/cbbc/.

Lead Guest Editor
Hamid Alinejad-Rokny, University of New South Wales, Sydney, Australia
h.alinejad@ieee.org

Guest Editors
Vinod Scaria, CSIR-Institute of Genomics & Integrative Biology, New Delhi, India
vinods@igib.in

Hamid Parvin, George Mason University, Fairfax, USA
h.parvin.iust@gmail.com

Manuscript Due
Friday, 12 February 2016

First Round of Reviews
Friday, 6 May 2016

Publication Date
Friday, 1 July 2016