Special Issue on Translational Biomedical Informatics

Call for Papers

Mining biological, biomedical, and health data is an emerging research area at the intersection between biomedical and data mining. As next generation sequencing data, electronic medical record, and other large-scale biomedical data has been accumulated exponentially in recent years, the informatics field is undergoing an unprecedented era with countless novel breakthroughs aiming to deal with Big Data mining problems. Research that bridges the latest multimodal measurement technologies with large amounts of electronic healthcare data is in great needs. This special issue aims to provide a platform to share novel research methodologies and tools on managing, analyzing, visualizing, and extracting information from large, diverse, complex, longitudinal, and/or distributed biological, biomedical and healthy data sets. It will provide references to researchers/practitioners/students who are interested in biomedical informatics, data mining, and healthcare fields.

The broader context of the special issue comprehends artificial intelligence, information retrieval, machine learning, and natural language processing. Submissions are invited to address the need for developing novel methods to mine, summarize and integrate the huge volume and diverse modalities of the structured and unstructured biomedical and healthcare data that can potentially lead to significant advances in the field.

The topics include, but are not limited to:

- Health informatics
- Biomedical informatics
- Integrative analysis of biological and clinical data
- Computational genetics, genomics and proteomics
- Application of data mining approaches in personalized medicine
- Topic detection and information extraction in Electronic Medical Records (EMR)
- Temporal data management in EMR
- Longitudinal analysis of clinical notes and surveys
- Medical image data mining
- Computer-aided detection and diagnosis
- Data preprocessing and cleansing to deal with noise and missing data in medical data
- Computational drug discovery
- Evidence-based medicine
- Health services data analytics

Authors should read over the journal's For Authors carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's Paper Submission System.

Please kindly specify the "**Special Issue**" under your manuscript title. The research field "**Special Issue -** *Translational Biomedical Informatics*" should be selected during your submission.

Special Issue Timetable:

Submission Deadline	November 25th, 2015
Publication Date	January 2016

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