



## Journal of Medical Imaging and Health Informatics (JMIHI): 2015's SCI-IF 0.877

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### *Call for Papers* *Special issue on*

#### **Recent Distributed Analytics and Deep learning Approaches for Big Health Care data**

##### **Aims & Scope:**

Distributed analytics is a forward step to extend out the capabilities into productive information by using analytics that is only necessary for core procedures. Health care data is similar to big data shape, its monolithic techniques to process health care data are however not fit for management and analytics of big data. Data volume and its architecture encompass unfamiliar domains of resources like health care data. Deep learning approaches help distributed analytics to filter out data stream, key consideration towards processing power, computational cost and data retrieval cost. Deep learning approaches for data processing transport data to the cloud which is relevant / important to the analytics. When health care data is transported towards the grid/cloud, the only key aspects under consideration are transportation of data, data processing power, processing specific information for specific task and somehow scheduling of data from node to end node. In most of the cases, huge health care data needed for analysis lack hardware capabilities. Somewhere problem can be handled using parallel computing or multithreaded processing for big data. Hardware technologies involved in analytics for deep learning models and approaches are still emerging with respect to capabilities orchestrating. On the other hand, software for complex deep learning models, algorithms and approaches on health care data are not up to the desired design to support distributed analytics for intelligent processing of data. Distributed analytics, when used with deep learning algorithms, contribute in data visualization and analysis efficiency, less computational power, high throughput and less cost of communication between nodes.

Enthusiastic observation and advancement of hardware as well as software for health care data processing, platform dependencies (Software/ Hardware), data processing efficiency and effectiveness, area of central implication are covered in this special issue but not limited to:

- Complex data visualization and analysis for distributed system
- Intelligent task scheduling for huge health care data
- Task monitoring and redirecting
- Prediction for disease
- Diagnosis and medicines follow-up plans management
- Streaming of data
- High scale
- Data tagging
- Semantic indexing

- Big data analytics
- Scalability of deep learning models
- Distributed analytics standards
- Cost of computation, communication, retrieval of data
- DA system integrity
- Future learning and implementation of incremental models
- Complication learning methods on deep learning
- High dimensionality of big data in health care
- Design of processing core for high throughput
- Feature engineering algorithms

### **Submission Guidelines**

Authors must mention in their cover letter for each SI manuscript that the particular manuscript is for the theme and name of Guest Editors of SI consideration so that the Guest Editors can be notified separately.

Guidelines for preparation of the manuscripts are available at the journal website

[http://www.aspbs.com/jmihi/inst-auth\\_jmihi.htm](http://www.aspbs.com/jmihi/inst-auth_jmihi.htm)

**READ THIS NOTE BEFORE SUBMISSION:** Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mstracker.com/submit1.php?ic=jmihi> according to the following timetable:

### **Important dates:**

- Manuscript Due: 15th August, 2018
- First Round of Reviews: 1st February, 2019
- Second Round of Reviews: 30th June, 2019
- Revised manuscript due: 15th October, 2019
- Publication Date: 2020

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