"Big Data Analysis & Optimization" special issue for

STATISTICS, OPTIMIZATION & INFORMATION COMPUTING

AN INTERNATIONAL JOURNAL

Call for papers

We live in an era of "BIG DATA": science, engineering & technology are producing increasingly large data streams. The Big Data phenomenon presents challenges on effective management and analysis of large datasets. The special issue is devoted to publishing **original research articles** or **survey papers** on the **latest and significant advances in Data Science**, with emphasis on but is not limited to the following topics:

*Big Data Analysis & Processing: Theories and methodologies for Big Data analysis & processing; Algorithms and architectures for Big Data Search, Mining and Processing; Machine Learning methods for Big Data; Visualization of Big Data; Data reduction and analytics; Cloud/Grid/Stream computing for Big Data; Scientific and social data management etc.

*Big Data Applications & Software in Science, Engineering, Finance, Business, Transportation, Telecommunications; Big Data analytics and applications in Bioinformatics/Healthcare Informatics, etc.

*Statistical Data Analysis & Computing: Clustering , Classification, Simulation, Regression, Kernel methods, Variational methods, Graph algorithms, Parametric & Nonparametric methods, Bayesian & Non-Bayesian approaches, Support vector machines, Learning methods (Semi-Supervised Learning, Reinforcement Learning, Online Learning, Active Learning) etc.

*Modeling & Optimization in big data mining, statistical learning, Monte Carlo sampling, compressed sampling, signal & image processing, medical imaging analysis, social network science and computational biology etc.

 Accepted paper will be published online free of charge. Papers are very encouraged to be submitted for consideration of possible publication via online submission link on our website (**www.iapress.org**/index.php/soic/about/submissions) in PDF form. you may also submit it directly to the editorial office (david.iapress@gmail.com) with a cover letter, according to the following timetable:

 Submission Deadline: **December 31, 2013**
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