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Special Session Call for Papers

SMC2014 Special Session on Matrix and Tensor Analysis for Big Vision

Special Session organizer Introduction/Call for Papers

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Matrix and Tensor analysis has important applications in natural sciences, medicine, economics, engineering as well as in industry. The research of matrix and tensor analysis plays important roles in dimension reduction, spectral analysis, manifold learning, kernel machines, sparse coding, *etc.* In recent years, the matrix and tensor analysis presents new research opportunities to large scale visual data, *e.g.* large scale face recognition, intelligent visual surveillance, web-scale image retrieval/annotation /classification, massive object recognition *etc.* As a consequence, matrix and tensor analysis is a never-ending resilience field and attracts growing efforts from different fields.

Co-organizer(s):

Dr. Weifeng Liu
Associate Professor
China University of
Petroleum, China

This special session hunts for original research results for *Matrix and Tensor Analysis for Big Vision*. The goals of this special session are twofold: 1) developing matrix and tensor analysis algorithms to target specific applications in large-scale visual data analytics and 2) defining novel large-scale visual data driven applications, which can be cleared up by conventional matrix and tensor analysis algorithms.

Email:
liuwf@upc.edu.cn

Indicative Topics/Areas

Manuscripts are solicited to address a wide range of topics in matrix and tensor analysis, but not limit to the following:

Dr. Jun Yu
Associate Professor
Xiamen University, China

Extension of traditional matrix and tensor analysis, multiview dimension reduction, spectral analysis, matrix and tensor analysis for manifold learning, kernel machines and tensor machines, matrix and tensor analysis for biometrics, matrix and tensor analysis for web-scale multimedia information retrieval, matrix and tensor analysis for video surveillance, matrix and tensor analysis for sparse analysis, *etc.*

Email:
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Important Dates

April 7, 2014: Deadline for submission of full-length papers to special sessions.

May 25, 2014: Acceptance/Rejection Notification.

July 9, 2014: Final camera-ready papers due in electronic form.

Dr. Xinmei Tian
Associate Professor
University of Science and
Technology of China, China

Submission

Manuscripts for a Special Session should **NOT** be submitted in duplication to any other regular or special sessions and should be submitted to SMC 2014 main conference online submission system on SMC 2014 conference website.

Email:
xinmei@ustc.edu.cn

All submitted papers of Special Sessions have to undergo the same review process (three completed reviews per paper). The technical reviewers for each Special Session paper will be members of the SMC 2014 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers.

Organized by IEEE SMC TC on Cognitive Computing and SMC New South Wales Section