

Queueing Systems Special Issue in Cloud Computing

Background

The data deluge in modern computing systems has led to both new platforms and new models of computing. From a platform perspective, we are in the midst of deployments of data centers that aggregate massive amounts of computing and storage. New computing models have emerged to efficiently process data over these large systems -- these range from parallel batch processing systems such as Map Reduce, to stream processing systems such as Storm. From a queueing perspective, these systems exhibit fascinating new algorithm design and performance analysis problems.

Scope

This special issue solicits papers that advance the state-of-art in queueing theory, stochastic processes, and/or scheduling theory in the context of cloud systems. Topics of interest include (but not limited to) algorithms for resource allocation in cloud systems, architectural trade-offs for data centers, pricing and economic issues in cloud markets, and performance analysis (e.g., stability, efficiency, energy usage, etc.).

Submission Process

We request that manuscripts be submitted through the Queueing Systems web portal (link below). Please choose 'S.I. :Cloud Computing' to ensure that the manuscripts are directed toward the guest editors for handling the review process.

Submission Portal:

<https://www.editorialmanager.com/ques/>

Author Instructions:

<http://www.springer.com/business+%26+management/operations+research/journal/11134>

Guest Editors:

Javad Ghaderi
Sanjay Shakkottai
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Important Dates

Submission deadline: April 1, 2015
Reviews and Author Notification: October 15, 2015
Final Revision and Camera-ready version: February 15, 2016
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