Call for Papers
Special Issue on Cloud Services Meet Big Data
IEEE Transactions on Services Computing

The concept of cloud services represents a prime facility and feature of cloud computing services made available to users on demand, when and where needed. Because cloud computing provides flexibility in scaling IT resources up and down according to dynamically changing business requirements, it makes cloud services so valuable to attract the gaze of people from both academia and industry. Consumers, providers, operators, etc. are generating a large amount of data on such services per minute on the Internet, which increasingly comes to show all typical properties of big data. New methodologies and techniques are therefore required for designing, validating, developing, testing and deploying cloud services on demand in this scenario, as well as for being effectively adaptive to business dynamics and users’ explicit and implicit requirements.

The objective of this special issue is to identify the most promising research fields, report the main recent innovative results and promote the visibility and relevance of this noteworthy direction in the interdisciplinary field between services computing and other emerging disciplines. It will cover all the aspects about cloud services in the era of Big Data. Suggested areas include, but are not limited to:

- Requirements engineering for cloud services
- New infrastructure, software architecture and design paradigms
- Semantic interoperability techniques for heterogeneous cloud services
- Business process modeling and management
- Mass customization and variability management for cloud services
- Value as a Service (VaaS) and its modeling, registration, and management
- On-demand services selection, composition, and provisioning
- Software servicisation with new delivery modes such as SaaS and PaaS
- New service testing techniques such as crowdsourcing testing
- User community-centric and individual preference-oriented cloud services recommendation
- Mobile Internet services
- Big Data Analytics as a Service for requirements acquisition, event logs analysis, service performance evaluation, etc.
- Mining domain knowledge and special purpose value for cloud services on demand

Important Dates
- Jan. 31, 2015          Full paper submission due
- Apr.30, 2015          First round notification
- May 31, 2015          Revised submission due
- Jul. 15, 2015         Paper acceptance decision
- Aug. 31, 2015         Camera-ready paper due

Submission Guidelines
Unpublished manuscripts or extended versions of the papers that have been published in related conference proceedings are welcome. Authors should submit their papers through the TSC online system (https://mc.manuscriptcentral.com/tsc-cs) and select “SI on Cloud Services Meet Big Data”. Author guidelines are available at the journal website (http://www.computer.org/tsc).

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