Call for Papers
Special Issue on Data-Centric Big Services
IEEE Transactions on Services Computing

As an overwhelming amount of data is being generated at a fast rate daily from all sources (e.g., intelligent terminals, Internet-of-Things sensors, cloud services, and social network services), it has become imperative to rapidly innovate the services computing technologies for provisioning data-centric scalable and composable services. These services must be efficient and effective in acquiring, storing, curating, transforming, analyzing, exploiting, and managing the vast amount of diverse data. Timely actionable insights on the Big Data can bring unprecedented value and new opportunities that are critical to a successful business and/or a prosperous society. The Big Services should be provisioned in a way that speeds up data processing, scales up with data volume, improves the adaptability and extensibility over data diversity and uncertainties, and turns low-level data into actionable knowledge towards better understanding and manipulation of the Big Data. A Big Service is a managed integration of a massive, complicated series of services centered on Big Data. It could comprise of complicated business and IT services across multiple network, application, and administrative domains via API-defined services and micro-services. A Big Service can be a correlative and complicated business in the networked virtual and real worlds.

At the dawn of the Big Services era, this special issue aims at presenting the latest developments, trends, and research solutions in provisioning data-centric Big Services. We seek original and high quality submissions related to (but not limited to) one or more of the following topics:

- Data-centric service modeling, delivery, evolution, transformation, convergence, and collaboration for API-defined Big Services
- Scalable data acquisition, security, privacy, compliance, integration, heterogeneity, and integrity management for Big Services
- Quality, dependability, credibility and trustworthiness of Big Services
- Context-aware service composition, operation and recommendation for Big Services
- Reasoning over and management of uncertainty in Big Service provisioning

Important Dates
Mar 31, 2016: Deadline for paper submission
Jun 30, 2016: Initial decision notification
Aug 15, 2016: Revised submissions due
Sep 30, 2016: Second-round decision notification
Oct 31, 2016: Final decision notification
Nov 15, 2016: Camera-ready version due

Submission Guidelines
Your papers should be submitted through the IEEE Transactions on Services Computing online system (https://mc.manuscriptcentral.com/tsc-cs) and select “SI on Data-Centric Big Services”. Paper formatting guidelines are available at the journal website (http://www.computer.org/tsc). Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere.

As per IEEE’s manuscript review policy for IEEE Transactions, a submission will not be sent to the Guest Editors for processing if it overlaps significantly with previously published papers. Minor revisions of a conference paper will be rejected based upon an automated overlap detection process.

Guest Editors
Liang-Jie Zhang, Kingdee International Software Group Company Limited. zhanglj@ieee.org
Michael Sheng, University of Adelaide, Australia. michael.sheng@adelaide.edu.au
Rong Chang, IBM Research, USA & China. rong.chang@gmail.com
Xiaofei Xu, Harbin Institute of Technology, China. xiaofei@hit.edu.cn