

**Dr. Athman Bouguettaya**

**Head of School of Computer Science and Information Technology  
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Athman Bouguettaya is Professor and Head of School of Computer Science and Information Technology at RMIT University, Melbourne, Australia. He received his PhD in Computer Science from the University of Colorado at Boulder (USA) in 1992. He was previously Science Leader in Service Computing at CSIRO ICT Centre, Canberra, Australia. Before that, he was a tenured faculty member and Program director in the Computer Science department at Virginia Polytechnic Institute and State University (commonly known as Virginia Tech) (USA). He is a founding member and past President of the Service Science Society, a non-profit organization that aims at forming a community of service scientists for the advancement of service science. He is or has been on the editorial boards of several journals including, the IEEE Transactions on Services Computing, ACM Transactions on Internet Technology, the International Journal on Next Generation Computing, VLDB Journal, Distributed and Parallel Databases Journal, and the International Journal of Cooperative Information Systems. He is the Editor-in-Chief of the Springer-Verlag book series on Services Science. He served as a guest editor of a number of special issues including the special issue of the ACM Transactions on Internet Technology on Semantic Web services, a special issue the IEEE Transactions on Services Computing on Service Query Models, and a special issue of IEEE Internet Computing on Database Technology on the Web. He served as a Program Chair of the 2012 International Conference on Web and Information System Engineering, the 2009 and 2010 Australasian Database Conference, 2008 International Conference on Service Oriented Computing (ICSOC) and the IEEE RIDE Workshop on Web Services for E-Commerce and E-Government (RIDE-WS-ECEG'04). He also served on the IEEE Fellow Nomination Committee. He has published more than 200 books, book chapters, and articles in journals and conferences in the area of databases and service computing (e.g., the IEEE Transactions on Knowledge and Data Engineering, the ACM Transactions on the Web, WWW Journal, VLDB Journal, SIGMOD, ICDE, VLDB, and EDBT). He was the recipient of several federally competitive grants in Australia (e.g., ARC) and the US (e.g., NSF, NIH). He is a Fellow of the IEEE and a Distinguished Scientist of the ACM.

**Title of the speech: Transforming Big Data into Services**

**Abstract:** Big data is here to stay and in a *big* way. Big data is coming from all sorts of sources and means, including sensors, deep space exploration, high-energy physics, social media, smartphones, genomics, etc. The cloud has been instrumental in supporting the storage and processing of the ever increasing amount of data. “Domesticating” the data, i.e., making it *useful*, however, has been a major challenge. Service computing is the next major evolution of computing that aims at transforming massive data into artefacts that are *acted upon* and made useful, i.e., turned into *services*. In this talk, I will first overview the big data trend. I will then motivate the need for a uniform service management to make big data useful. I will then describe our latest research that focuses on servicing *big sensor cloud data*.