

## SORS: Multi-objective Optimisation and Big Data

**Speaker: Yong Shi**, Executive Deputy Director, Ch



Chinese Academy of Sciences Research

Center CFEDS

### **Abstract:**

At present, Big Data becomes reality that no one can ignore. Big Data is our environment whenever we need to make a decision. Big Data is a buzz word that makes everyone understand how important it is. Big Data shows a big opportunity for academia, industry and government. Big Data then is a big challenge for all parties. This talk will discuss some fundamental issues of Big Data problems, such as data heterogeneity vs. decision heterogeneity, data stream research and data-driven decision management. The talk will focus on various approaches based on optimization and intelligent knowledge. The optimization techniques include multiple criteria linear programming and multiple criteria quadratic programming. The intelligent knowledge is the research beyond traditional data mining. Furthermore, this talk will provide a number of real-life Big Data Applications. In the conclusion, the talk suggests a number of open research problems in Data Science, which is a growing field beyond Big Data.

### **Short Bio**

**Yong Shi** is a Senior Member of IEEE, the Executive Deputy Director, Chinese Academy of Sciences Research Center on Fictitious Economy & Data Science. He has been the Charles W. and Margre H. Durham Distinguished Professor of Information Technology, College of Information Science and Technology, Peter Kiewit Institute, University of Nebraska, USA 1999-2004. Dr. Shi's research interests include business intelligence, data mining, and multiple criteria decision making. He has published more than 20 books, over 200 papers in various journals and numerous conferences/proceedings papers. He is the

Editor-in-Chief of *International Journal of Information Technology and Decision Making* (SCI), and a member of Editorial Board for a number of academic journals. Dr. Shi has received many distinguished awards including the Georg Cantor Award of the International Society on Multiple Criteria Decision Making (MCDM), 2009; Fudan Prize of Distinguished Contribution in Management, Fudan Premium Fund of Management, China, 2009; Outstanding Young Scientist Award, National Natural Science Foundation of China, 2001; and Speaker of Distinguished Visitors Program (DVP) for 1997-2000, IEEE Computer Society. He has consulted or worked on business projects for a number of international companies in data mining and knowledge management.

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