

In-Depth View of the Key Challenges in Big Data Analytics

透析巨量資料分析之關鍵挑戰

Vincent S. Tseng (曾新穆)

Dept. Computer Science and Information Engineering

National Cheng Kung University

Taiwan, R.O.C.

Abstract

Nowadays, large volume of data is being collected at unprecedented and explosive scale in a broad range of application areas. Analytics on such Big Data deliver amazing value and can drive nearly every aspect of our life, including retail, financial services, mobile services, manufacturing, life sciences, etc. Decisions that previously were based on hypothetical models or just unreliable guesswork can now be made effectively and efficiently by utilizing the big data itself. New wave of revolution in information technology has jumped into this Big Data era with new opportunities and challenges arisen. In this talk, I will put focus on the core of Big Data fields, namely *Big Data Analytics*, by introducing the main trends and key challenges therein. In particular, some key challenging issues will be investigated in-depth through interesting applications in different domains including biomedicine, manufacturing and commerce. Finally, some emerging research topics and potential opportunities underlying this topic will be addressed accordingly.