

# Proposal for a Tutorial Talk at RSKT2008

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**Title:** Introduction to 3DM: Domain-oriented Data-driven Data Mining

**Time length:** 1.2 hours

**Intended audience:** intermediate and advanced

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## **Abstract:**

Recent advances in computing, communications, digital storage technologies, and high-throughput data-acquisition technologies, make it possible to gather and store incredible volumes of data. It creates unprecedented opportunities for large-scale knowledge discovery from database. Data mining (DM) technology has emerged as a means of performing this discovery. It is a useful tool in many domains such as marketing, decision making, etc. There are countless researchers working on designing efficient data mining techniques, methods, and algorithms. In this talk, some basic issues of data mining will be addressed. What is data mining? What is the product of a data mining process? What are we doing in a data mining process? What is the rule we should obey in a data mining process? A conceptual data mining model of domain-oriented data-driven data mining (3DM) will be proposed. Data mining is understood as a process of knowledge transformation.

## **Brief biography:**

Professor Guoyin Wang was born in Chongqing, China, in 1970. He received the bachelor's degree in computer software, the master's degree in computer software, and the Ph.D. degree in computer organization and architecture from Xi'an Jiaotong University, Xi'an, China, in 1992, 1994, and 1996, respectively. He worked at the University of North Texas, USA, and the University of Regina, Canada, as a visiting scholar during 1998-1999. Since 1996, he has been working at the Chongqing University of Posts and Telecommunications, where he is currently a professor and PhD supervisor, the Chairman of the Institute of Computer Science and Technology (ICST), and the Dean of the College of Computer Science and Technology. He is also a part-time professor with the Xi'an Jiaotong University, Shanghai Jiaotong University, Southwest Jiaotong University, Xidian University, and University of Electronic Science and Technology of China. Professor Wang is the Chairman of the Advisory Board of International Rough Set Society (IRSS), Chairman of the Rough Set Theory and Soft Computation Society, Chinese Association for Artificial Intelligence. He serves as a program committee member for many international conferences and editorial board member of several international journals. Professor

Wang has been awarded several government medals, and was named as a national excellent teacher and a national excellent university key teacher by the Ministry of Education, China, in 2001 and 2002 respectively. In 2004, Professor Wang was elected into the Program for New Century Excellent Talents in University by the Ministry of Education of P R China. He has given many invited talks at international and national conferences, and has given many seminars in many universities in USA, Canada, Poland, and China. The institute (ICST) directed by Professor Wang was elected as one of the top ten outstanding youth organizations of Chongqing, China. Professor Wang is the author of 2 books, the editor of many proceedings of international and national conferences, and has over 100 research publications. His research interests include data mining, machine learning, rough set, neural network, soft computing, etc.