Institute for Integrated and Intelligent Systems (IIIS) and School of Information and Communication Technology (ICT)

Is pleased to present the SEMINAR on

"Context Exploration - An Effective Way to Enhance Duplication Detection"

Dr. Ke Deng
Australian Postdoctoral Fellow 2010-2012 at University of Qld

*Time* 10.00am - 11.00am
*Date* 19th April 2011
*Venue* G30 2.15 Gold Coast campus Griffith University.

**Abstract:** In large information systems, the source databases are often created and maintained by different groups. The information from multiple data sources needs to be linked in order to allow more detailed analysis. Unfortunately, data often lack a unique, global identifier that would permit such an operation. This project aims to break the limitation of current technologies and initiate a new direction in duplication detection in order to achieve high accuracy. This aim is approached through systematically exploration of context information associated with the dataset under consideration. The intuition behind is that in many occasions that dataset under duplication detection is not independent but in a context such as related to a reliable reference dataset or a reliable underlying database. In this situation, the context defines a truth space which provides extra semantic information to help recognizing the identification of records. This project consists of four tasks. In this talk, the progress of each task will be reported by briefly introducing the published and working papers associated.

**Biography:** Dr. Ke Deng is currently an Australian Postdoctoral Fellow 2010-2012 (ARC APD) at the University of Queensland. He obtained his PhD degree in computer science from The University of Queensland (UQ) in 2007. After that, he has been a Postdoctoral fellow at CSIRO ICT Centre and a research fellow at UQ. He has also been a lecturer at UQ teaching advanced courses of information system for four years. His research interests include data quality, spatial data and stream data query processing. Dr. Ke Deng has published a number of papers in top conferences and journals (Rank A*/A by ERA) including VLDB Journal, TKDE and ICDE etc. He has two ARC DP grants currently.

**RSVP** to Seminar Coordinator **Dr V. Muthukumarasamy** for catering purposes. Cost: Free Lecture,
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