Institute for Integrated and Intelligent Systems (IIIS) and School of Information and Communication Technology (ICT) is pleased to present the SEMINAR on

"Prototypes, Convexity and Fuzzy Sets"

Professor Norman Foo Emeritus Professor UNSW

**Time** 1.00pm - 2.30pm  
**Date** Monday 15th February 2010  
**Venue** G06 3.09 Gold Coast campus Griffith University.

**Abstract:** There have been a number of attempts to link standard sets with fuzzy sets. Here we present one link. Our view is that unimodal fuzziness arises from the amalgamation of classical characteristic functions subject to two cognitive principles, viz. natural sets are convex and have prototypes. Conversely, given a unimodal fuzzy set, there is a set of classical convex and prototypical sets yielding this fuzziness from amalgamation.

**Bio:** Norman Foo is Emeritus Professor of Computer Science and Engineering at the University of New South Wales, Kensington, Sydney, and also an Honorary Scientist at the NICTA Kensington Laboratories. Before assuming a Chair in UNSW in 1996 he was Professor of Knowledge Systems in the University of Sydney. He has been Visiting Professor in IBM Research in New York in 1987, the University of Birmingham in 2000, and the University of Bath from 2006 to 2008. He practised as a communications engineer in Malaysia after graduating BE and ME from the University of Canterbury, and later completed an MA and PhD from the University of Michigan. His main interest is in Artificial Intelligence and within it he has focused on AI logics, nonmonotonic reasoning, diagrammatic reasoning, argumentation, belief revision and update, logic programming, negotiation, social agents and game theory, trust and reputation.


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