

# The 141st GCOE SPECIAL SEMINAR

Micro-Nano Global COE & Center for Micro-Nano Mechatronics

**DATE:** 10:30—12:00, Mar. 9th (Sat), 2013

**PLACE:** Meeting Room (2<sup>nd</sup> floor), GCOE Laboratory,  
Center for Micro - Nano Mechatronics, Nagoya University

**TITLE:** “Soft Computing Models and Their Applications”

**LECTURER:** Assoc.Prof. Lim Chee Peng  
Complex Systems Centre for Intelligent Systems Research  
Deakin University

## ABSTRACT:

In this talk, the background of data processing and analysis methods and the impacts of data analysis will first be presented. Then, a number of soft computing models that are useful for intelligent data analysis, which include artificial neural networks, fuzzy systems, evolutionary algorithms, and their hybrid models, will be introduced. The applicability of soft computing models to undertaking complex problems in different domains will be demonstrated. These include case studies in medical prognosis and diagnosis, fault detection and condition monitoring, optimisation of production planning and scheduling, as well as image segmentation and fusion.

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