

Report on IEEE Distinguished Lecturer Kay Chen TAN's Talk IEEE Computational Intelligence Chapter (NZ Central Section)

Chapter Chair: Mengjie Zhang; Secretary: Bing Xue

On Thursday 4 June 2015 at 3:10-4:00pm in Cotton Building CO 350 at Victoria University of Wellington, the IEEE Computational Intelligence Chapter (IEEE New Zealand Central Section) had IEEE Distinguished Lecturer, Dr KC Tan from National University of Singapore, delivered an exciting talk on "An Introduction to Computational Intelligence". Despite the cold weather, 43 IEEE members, academics, research students, and people from industry attended the seminar. After the seminar, a one-hour discussion was held between the attendees and Dr Tan. Using his 20 years of experience in computational intelligence (particularly evolutionary computation), Dr Tan discussed how different parts of computational intelligence interact and how computational intelligence techniques are applied in engineering application tasks. After the seminar, pizzas and soft drinks were served.

IEEE NZ Central Section helped the CIS chapter advertise this event in the section, and financially supported \$500 for this event for part of the local cost. The Chair's School (Victoria University of Wellington) covers the rest of the local cost.

Some pictures in the talk are presented below.



The details of the talk with an abstract are attached below.

Title: An Introduction to Computational Intelligence

Speaker: Kay Chen Tan, National University of Singapore, IEEE Fellow, IEEE Distinguished Lecturer

Date: 04 June 2015

Time: 3:10-4:00pm

(4:00-5:00pm: discussions with Dr KC Tan; 5:00-5:30: Pizza and soft drinks were provided.)

Venue: CO350, Victoria University of Wellington, Kelburn Campus

Host: IEEE NZ Central Section CIS Chapter

Abstract: The rapid development of CI research in recent years is a response to the evolution of machine intelligence in systems and to the acceleration in the use of learning and intelligent technologies in the conception and design of systems. This talk will provide an introduction to various CI technologies including evolutionary algorithms, neural networks, and fuzzy systems. Practical applications of computational intelligence in solving scientific optimization and machine learning problems, such as decision-making, control and classification, will also be highlighted.

Biography:

Professor TAN Kay Chen is actively pursuing research in computational and artificial intelligence, with applications to multi-objective optimization, scheduling, automation, data mining, and games. He has published over 100 journal papers, over 100 papers in conference proceedings, co-authored 5 books and co-edited 4 books. Dr Tan has been an Invited Keynote/Plenary speaker for over 40 international conferences. He served in the international program committee for over 100 conferences and involved in the organizing committee for over 50 international conferences. Dr Tan is the General Co-Chair for IEEE World Congress on Computational Intelligence 2016 in Vancouver, Canada. Dr Tan is currently an elected member of AdCom (2014-2016) and is an IEEE Distinguished Lecturer of IEEE Computational Intelligence Society (2011-2013; 2015-2017).



Dr Tan is the Editor-in-Chief of IEEE Transactions on Evolutionary Computation. He was the Editor-in-Chief of IEEE Computational Intelligence Magazine (2010-2013). He currently serves as an Associate Editor / Editorial Board member of over 20 international journals, such as IEEE Transactions on Cybernetics, IEEE Transactions on Computational Intelligence and AI in Games, Evolutionary Computation (MIT Press), European Journal of Operational Research, Neural Computing and Applications, Journal of Scheduling, International Journal of Systems Science, etc.

Dr Tan is a Fellow of IEEE. He is the awardee of the 2012 IEEE Computational Intelligence Society (CIS) Outstanding Early Career Award for his contributions to evolutionary computation in multi-objective optimization. He also received the Recognition Award (2008) from the International Network for Engineering Education & Research (iNEER) for his outstanding contributions to engineering education and research. He was felicitated by the International Neural Network Society (INNS) India Regional Chapter (2014) for his outstanding contributions in the field of computational intelligence.