DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Faculty of Engineering
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Area: Control, Intelligent Systems & Robotics

Host: Assoc Prof Marcelo Ang

Research Seminar

TOPIC	:	**Purposively learning from humans**
SPEAKER	:	**Prof Gordon Cheng,** **Technical University of Munich**
DATE	:	**15 August 2019, Thursday**
TIME	:	**2pm to 3pm**
VENUE	:	**E5-03-20, Engineering Block E5, Faculty of Engineering, NUS**

ABSTRACT

This talk presents a 20 years' view in robot imitation learning. Drawing on different stages/strategies of how humans learn throughout their lives, I will provide examples of different ways in which robots can learn from humans. In the end, I'll show that reasoning about the meanings of human activities is a powerful way for robots to learn from humans in the future.

BIOGRAPHY

Gordon Cheng holds the Chair for Cognitive Systems (2010-), Prof. Cheng is Founder and Director of Institute for Cognitive Systems, Faculty of Electrical and Computer Engineering at Technical University of Munich, Munich/Germany.He is the coordinator of the Center of Competence Neuro-Engineering (2013-). He is the director of the Elite Master of Science program in Neuroengineering (MSNE) of the Elite Network of Bavaria (2016-).

He received a PhD (2001) in Systems Engineering from the Department of Systems Engineering, The Australian National University. Bachelor (1991) and Master (1993) degrees in Computer Science from the University of Wollongong, Australia. He has extensive industrial experiences in consultancy as well as contractual development of large software systems. He was also the Founder/CEO of the company, G.T.I. Computing (1995-2006), a company he founded specializing in networking and transport management systems in Australia.

His research interests include, humanoid robotics, cognitive systems, artificial robot skin, brain machine interfaces, bio- mimetic of human vision, computational neuroscience of vision, action understanding, human-robot interaction, active vision and mobile robot navigation. He is the co-inventor of approximately 20 patents and author of approximately 300 technical publications, proceedings, editorials and book chapters. He has been named IEEE Fellow 2017 for "contributions in humanoid robotic systems and neurorobotics".

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