Distinguished Lecturer Visit by Prof. Robert Kozma

Prof. Robert Kozma visited The University of New South Wales, Canberra on February 6th, 2024, where he delivered a distinguished lecture titled "Sustainable Artificial Intelligence" to the SMCS ACT Chapter, in Canberra, Australia, organized by Dr. Huadong Mo and Professor Daoyi Dong.

The IEEE SMC Society's ACT Chapter was established in 2018, led by the Chapter Founding Chair Prof Daoyi Dong, and it received a Best SMCS Chapter Award in 2021. The successful activities continue with Dr Huadong Mo serving as ACT Chapter Chair now. The ACT Chapter activities cover UNSW, ANU and other academic and government organizations in ACT. Chapter meetings happen at least once per year, and the DLP visit by Prof Kozma provided a great opportunity to have the Chapter members together. It is a great news that Prof Kozma's Distinguished Lecture and visit to the ACT Chapter have attracted five new attendees to join the SMC Society. Other recent remarkable ACT Chapter activities included a workshop on industrial and quantum system engineering and a series of online monthly seminars delivered by academics from top universities.

The distinguished lecture has been held at SR06 Building 32, UNSW, Canberra, and more than twenty participants attended this event. The talk explored the intersection of AI and sustainability from a neuromorphic perspective. Prof. Kozma holds a Ph.D. in Applied Physics from Delft University of Technology. He is renowned expert in various AI-related areas and neural networks. In his talk he proposed innovative solutions to enhance AI sustainability by drawing insights from the efficiency of the human brain. Attendees engaged in discussions, gaining valuable insights into the future of sustainable artificial intelligence from one of the foremost experts in the field.

The intellectual exchange with the participation of Dr. Kozma continued on February 7th, at a Workshop on Industrial and Quantum Systems Engineering organized by Dr. Shuixin Xiao and Dr. Weichao Liang. The Workshop was held at The Australian National University, at Room R214, Building 31, Ian Ross Building, ANU. The event showcased the research endeavors of five students under the mentorship of Dr. Huadong Mo and Professor Daoyi Dong. The agenda unfolded as follows:

Time	Presenter	Topic
10:00-10:05	Shuixin Xiao	Welcoming Remark
10:05-10:25	Zhanzhongyu Gao	Information criteria in multiple change point detection
10:25-10:45	Weichao Liang	Robustness of stability for quantum stochastic systems
10:45-11:05	Zhongju Wang	Time series forecasting by large language models
11:05-11:25	Hailan Ma	Realization of quantum autoencoders using a learning control approach
11:25-11:45	Shuixin Xiao	Quantum detector tomography: algorithm design and optimization
11:45-12:00	Daoyi Dong	Discussion and Conclusion

The Workshop on Industrial and Quantum Systems Engineering also attracted numerous online participants via Zoom, fostering dynamic discussions and active engagement in problem-solving, with Dr. Kozma as visiting Distinguished Lecturer providing valuable comments and insights on the presentations. Following the workshop, professors and students convened for an informal social event in the form of a convivial lunch at Badger & Co, ANU, further nurturing the spirit of collaboration and camaraderie.

In conclusion, the Distinguished Lecturer visit by Dr Robert Kozma has been a very successful event for the ACT Chapter. The support of the SMC Society, the DLP Program, coordinated by Dr. MariaGrazia Dotoli, VP for Membership of SMCS is greatly appreciated.

Figure 1: Prof. Kozma presents the IEEE SMS Distinguished Lecture on February 6th, 2024, at the University of New South Wales, Canberra.

Figure 2: IEE ACT Section Chair Prof. Lily Qiao gives the gift to Prof. Kozma, following his Distinguished Lecture at UNSW.

Figure 3: On-site attendees at UNSW after the IEEE SMC Society Distinguished Lecture.