量子机器学习简介

深圳大学计算机与软件学院
College of Computer Science & Software Engineering,
Shenzhen University

大数据技术与应用研究所 学术讲座

报告人：董道毅　副教授

主持人：王熙照　教授

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演讲嘉宾简介

Daoyi Dong is currently a Scientia Associate Professor at the University of New South Wales, Canberra, Australia, and he is also an Alexander von Humboldt Fellow. He had visiting positions at Princeton University, NJ, USA, RIKEN, Wako-Shi, Japan and The University of Hong Kong, Hong Kong, University of Duisburg-Essen, Germany. He received a B.E. degree in automatic control and a Ph.D. degree in engineering from the University of Science and Technology of China, Hefei, China, in 2001 and 2006, respectively. His research interests include quantum cybernetics and machine learning. He was awarded an ACA Temasek Young Educator Award by The Asian Control Association and is a recipient of an International Collaboration Award, Discovery International Award and an Australian Post-Doctoral Fellowship from the Australian Research Council, and Humboldt Research Fellowship from Alexander von Humboldt Foundation in Germany. He serves as an Associate Editor of IEEE Transactions on Neural Networks and Learning Systems, and Technical Editor of IEEE/ASME Transactions on Mechatronics. He is a Member-at-Large of Board of Governors, IEEE Systems, Man and Cybernetics Society. He has published 95 journal papers in leading journals including Nature Human Behaviour, Physical Review Letters, IEEE Transactions, and Automatica, more than 50 conference paper, and one book.

报告摘要

随着量子技术的发展，量子计算显示了强大的计算能力。近年来量子计算与机器学习的相互融合，量子机器学习这一新兴学科迅速发展。在这个报告中，我们将先对量子计算的基本原理作简要介绍，然后介绍量子机器学习的发展现状，最后也对量子启发式机器学习和机器学习解决量子问题作简要阐述。

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