

2025量子電腦暨資訊科技研討會與TAQCIT年會

日期：2025年4月13日

Agenda for Quantum Forum and Annual Meeting 柏拉圖廳				
Time	Program			
09:00~09:20	Registration			
09:20~09:50	TAQCIT Annual Conference			
09:50~10:10	Coffee break 阿基米德廳			
10:10~10:20	Opening Remarks from AIT Commercial Sector Representative			Moderator: Prof. Yuan-Ron Ma Vice President, FGU/ Distinguished Professor, Department of Physics, NDHU
10:20~11:10	Keynote Speech I: Quantum: From Utility to Advantage Kenneth A. Wood, P.E. Director, IBM Quantum			
11:10~11:35	Keynote Speech II: Development of Ion Trap Quantum Technologies at Foxconn Ming-Shien Chang, Associate Research Fellow, IAMS, Academia Sinica; PIC of Trapped-Ion Quantum Computing Project, Hon Hai Research Institute			
11:35~12:00	Keynote Speech III: Quantum Solution Architect at NVIDIA AI Technology Center (NVAITC) Pika Wang, Solutions Architect, NVIDIA			
12:00~13:30	Lunch Time			
Forum	Session A1 (Quantum Qubit Devices and Quantum Algorithms) 米開朗基羅廳	Session B1 (Quantum Information and Quantum Machine Learning) 拉斐爾廳	Session C (Quantum Education from Hong Kong) 洛克廳	
Time	Program A1	Program B1	Program C	
13:30~13:35	Moderator: Prof. Chao-Ming Fu Department of Physics, NTU	Moderator: Prof. Chia-Ho Ou Department of Computer Science and Information Engineering, NPTU	Moderator: Prof. Tsung-Wei Huang Quantum Information Center, CYCU	
13:35~14:10	Invited Speaker: Pei-Wen Li Professor/IEEE DL/IEEE Senior Member, NYCU Self-organized Germanium Quantum Dots/Si-based barriers for Semiconductor Charge Qubits	Invited Speaker: 陳怡欽 處長 仁寶電腦研發中心 QUBO應用與生物計算	13:35~14:10	量子力學科普及教學的實踐探索 香港物理學會 王欣 名譽司庫
14:10~14:45	Invited Speaker: Chih-Sung Chuu Professor, Department of Physics, NTHU Optical Quantum Computing in High Dimensions	Invited Speaker: Kuei-Lin Chiu Professor, Department of Physics, NSYSU Quantum Materials for New Opportunities in Superconducting Qubits	14:10~14:40	New Horizons in Quantum Computing Education for Gifted Students 香港資優教育學苑 LO Chi Chia/Tang Shun Chong
14:45~15:00	An Emerging and Promising Quantum-Inspired Search Algorithm	用於非監督學習的量子卷積神經網路	14:40~15:15	基於Apple Vision Pro的AR量子物理教學實踐 香港星量智宇有限公司 何敏權 博士
15:00~15:15	Research on Truck and Drone Collaborative Delivery Systems: A Quantum Optimization-based Last-mile Solution	Quantum-induced DNA Mutations: A Literature Review		

15:15~15:35	Coffee break 阿基米德廳			
Forum	Session A2 (Quantum Qubit Devices and Quantum Algorithms) 米開朗基羅廳	Session B2 (Quantum Information and Quantum Machine Learning) 拉斐爾廳	Session C (Quantum Education from Taiwan) 洛克廳	
Time	Program A2	Program B2	Moderator: Prof. Wang Xin Sunny City University of Hong Kong	
15:35~15:50	多方量子電腦協作實現秀爾演算法之技術研究	Improving Quantum Support Vector Classifiers and Quantum Neural Networks for Biomedical Data Classification	15:35~16:05	高中量子教育為學生 開啟一扇窗 臺北市立第一女中 物理專任教師 簡麗賢 老師
15:50~16:05	Quantum-inspired Portfolio Optimization in The QUBO Framework	A Quantum Circuit-based Compression Perspective for Parameter-efficient Learning		
16:05~16:20	Research on Automatic Reorganization of Digital Puzzle Based on Annealing Algorithm	Toward Scalable Kernel-Based Quantum Machine Learning Using Tensor Networks	16:05~16:30	台灣學生自主推動量子教育現況與未來 EntangleTech執行長/ Qracon量子電腦 學生年會總召 張仁瑀
16:20~16:35	Entanglement Induced by Heisenberg Exchange between An Electron in A Nested Quantum Dot and A Qubit with Relative Motion	Drug Design on Quantum Computing		
16:35~16:50	Formulation of Quantum Phase on The IBM-quantum: Qubit Number Versus Phase Estimation Accuracy	Optical Filter Design with Factorization Machines with Quantum Annealing	16:30~16:55	台灣量子教育推廣近況 中原量子資訊中心 黃琮曄 教授
16:50~16:55	Conclusion of Session A	Conclusion of Session B		
16:55	Adjourn			