

QALG: Quantum Algorithms Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Nipun Agarwal	Quantum Communication Complexity and Raz's Problem
2	Simone Perriello, Alessandro Barenghi and Gerardo Pelosi	A Quantum Circuit to Execute a Key-Recovery Attack Against the DES and 3DES Block Ciphers
3	Yusheng Zhao, Hui Zhong, Xinyue Zhang, Yuqing Li, Chi Zhang and Miao Pan	Bridging Quantum Computing and Differential Privacy: Insights into Quantum Computing Privacy
4	Tianyi Zhang and Yuan Ke	Consistent Sampling with Smoothed Quantum Walk
5	Tavis Bennett, Lyle Noakes and Jingbo Wang	Non-variational Quantum Combinatorial Optimisation
6	Seyyedehsan Faghieh and Huiyang Zhou	Dynamic Runtime Assertions in Quantum Ternary Systems
7	José Cruz Serrallés, Oluwadara Ogunkoya, Doga Kurkcuoglu, Nicholas Bornman, Norm Tubman, Silvia Zorzetti and Riccardo Lattanzi	A Quantum approach for Implementing Fixed-Point Arithmetic in Solving Ordinary Differential Equations
8	Aden Crimmins and Sonia Lopez Alarcon	Approximate Quantum Array Multiplier
9	Jezer Jojo, Ankit Khandelwal and M. Girish Chandra	Quantum Algorithms for tensor-SVD
10	Blake Burgstahler, Ellis Wilson, Scott Pakin and Frank Mueller	Synthesis of Approximate Parametric Circuits for Variational Quantum Algorithms
11	Hanjing Xu and Alex Pothen	Hybrid Classical-Quantum Algorithms for Large Maximum Independent Set on Separable Graphs
12	Shantom K. Borah, Asit K. Pradhan, Nithin Raveendran, Narayanan Rengaswamy and Bane Vasić	Non-Binary Hypergraph Product Codes for Qudit Error Correction
13	Oskar Novak and Narayanan Rengaswamy	GNarsil: Splitting Stabilizers into Gauges
14	Xinpeng Li, Vinooth Rao Kulkarni, Daniel T Chen, Qiang Guan, Weiwen Jiang, Ning Xie, Shuai Xu and Vipin Chaudhary	Efficient Circuit Wire Cutting Based on Commuting Groups
15	Dror Baron, Hrushikesh Pramod Patil and Huiyang Zhou	Qubit-Wise Majority Vote: Maximum Likelihood Quantum Error Mitigation for Algorithms with a Single Correct Output
16	Zhuangzhuang Chen and Narayanan Rengaswamy	Tailoring Fault-Tolerance to Trotter Circuits
17	Joshua Cudby and Sergii Strelchuk	Learning Gaussian Operations and the Matchgate Hierarchy
18	S. E. Skelton	Fejer Methods for Complex QSP-processing
19	Amandeep Bhatia, Sabre Kais and Muhammad Alam	On the Robustness of Variational Quantum Classifier against "Label Flipping Attacks" in Federated Learning for Semiconductor Manufacturing
20	Salahuddin Abdul Rahman, Özkan Karabacak and Rafal Wisniewski	Weighted Feedback-Based Quantum Algorithm for Excited States Calculation
21	Mohammadreza Saghafi, Lamine Mili and Ravi Raghunathan	Variational Quantum Algorithm as an Efficient Tool for Data Fitting
22	Mushkan Sureka and Saikat Guha	Gaussian Boson Sampling to Accelerate NP-Complete Vertex-Minor Graph Classification
23	Abeynaya Gnanasekaran and Amit Surana	Efficient Variational Quantum Linear Solver for Structured Sparse Matrices

QSYS: Quantum Systems Software Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Yusuke Kimura, Shaowen Li, Hiroyuki Sato and Masahiro Fujita	Decision Diagram vs. State Vector: A Comparative Study on Quantum Computing Simulation Efficiency
2	Zachary Morrell, Marc Vuffray, Sidhant Misra and Carleton Coffrin	QuantumAnnealing: A Julia Package for Simulating Dynamics of Transverse Field Ising Models
3	Amr Elsharkawy, Xiaorang Guo and Martin Schulz	Integration of Quantum Accelerators into HPC: Toward a Unified Quantum Platform
4	Yannick Stade, Ludwig Schmid, Lukas Burgholzer and Robert Wille	An Abstract Model and Efficient Routing for Logical Entangling Gates on Zoned Neutral Atom Architectures
5	Min Yang, Xiaolong Guo and Lei Jiang	Multi-Stage Watermarking for Quantum Circuits
6	Justin Kalloor, Mathias Weiden, Costin Iancu, John Kubiawicz, Ed Younis and Bert De Jong	Quantum Hardware Roofline: Evaluating the Impact of Gate Expressivity on Quantum Processor Design
7	Nico Meyer, Christian Ufrecht, Maniraman Periyasamy, Axel Plinge, Christopher Mutschler, Daniel D. Scherer and Andreas Maier	Qiskit-Torch-Module: Fast Prototyping of Quantum Neural Networks
8	Sebastian Rietsch, Abhishek Y. Dubey, Christian Ufrecht, Maniraman Periyasamy, Axel Plinge, Christopher Mutschler and Daniel D. Scherer	Unitary Synthesis of Clifford+T Circuits with Reinforcement Learning
9	Joshua Behler, Ali Al-Ramadan, Betis Baheri, Qiang Guan and Jonathan Maletic	Supporting Static Program Analysis and Transformation of Quantum-Based Languages
10	Yutaka Hirano, Tomohiro Itogawa and Keisuke Fujii	Leveraging Zero-Level Distillation to Generate High-Fidelity Magic States
11	Natalia Nottingham, Michael A. Perlin, Dhirpal Shah, Ryan White, Hannes Bernien, Frederic Chong and Jonathan Baker	Circuit decompositions and scheduling for neutral atom devices with limited local addressability
12	Michael Healy, Thomas Alexander, Reza Jokar, Soolu Thomas, Vincent R. Pascuzzi, Kit Barton, Roy Elkabetz, Brian Donovan, Hiroshi Horii and Marius Hillenbrand	Design and architecture of the IBM Quantum Engine Compiler
13	Aniket S. Dalvi, Jacob Whitlow, Marissa D'Onofrio, Leon Riesebois, Tianyi Chen, Samuel Phiri, Kenneth R. Brown and Jonathan M. Baker	One-Time Compilation of Device-Level Instructions for Quantum Subroutines
14	David Winderl, Qunsheng Huang, Arianne Meijer van de Griend and Richie Yeung	Redefining Lexicographical Ordering: Optimizing Pauli String Decompositions for Quantum Compiling
15	Aniket S. Dalvi, Leon Riesebois, Jacob Whitlow and Kenneth R. Brown	Graph-Based Pulse Representation for Diverse Quantum Control Hardware
16	Pau Escofet, Alejandro Gonzalvo, Eduard Alarcón, Carmen G. Almudéver and Sergi Abadal	Route-Forcing: Scalable Quantum Circuit Mapping for Scalable Quantum Computing Architectures
17	Koen Mesman, Ward van der Schoot, Matthias Möller and Niels Neumann	QuAS: Quantum Application Score for benchmarking the utility of quantum computers
18	Wei Tang, Yiheng Duan, Yaroslav Kharkov, Rasool Fakoor, Eric Kessler and Yunong Shi	AlphaRouter: Quantum Circuit Routing with Reinforcement Learning and Tree Search
19	Ward van der Schoot, Robert Wezeman, Niels Neumann, Frank Phillipson and Rob Kooij	Extending the Q-score to an Application-level Quantum Metric Framework
20	Yanbin Chen, Innocenzo Fulginiti and Christian Mendl	Reducing Mid-Circuit Measurements via Probabilistic Circuits
21	Anabel Ovide González, Daniele Cuomo and Carmen García Almudever	Scaling and assigning resources on QCCD Ion Trap architectures
22	Zanhe Qi, Atsushi Matsuo and Shigeru Yamashita	Optimization for Gaussian Elimination-based NNA-compliant Circuit Synthesis method by Inserting CNOT Gates
23	Olivia Di Matteo, Santiago Núñez-Corrales, Michał Stęchły, Steven Reinhardt and Tim Mattson	An Abstraction Hierarchy Toward Productive Quantum Programming
24	Aaron Orenstein and Vipin Chaudhary	QGroup: Parallel Quantum Job Scheduling Using Dynamic Programming
25	Mushahid Khan, Prashant Nair and Olivia Di Matteo	CircInspect: Integrating Visual Circuit Analysis, Abstraction, and Real-Time Development in Quantum Debugging
26	Yuki Matsumoto, Teruo Tanimoto, Masamitsu Tanaka and Takatsugu Ono	Low-Power HFQ-based Counter Circuits for Cryogenic Quantum Computers
27	Deborah Volpe, Nils Quetschlich, Mariagrazia Graziano, Giovanna Turvani and Robert Wille	A Predictive Approach for Selecting the Best Quantum Solver for an Optimization Problem
28	Tian-Fu Chen, Cheng-Han Liu and Jie-Hong Roland Jiang	A Holistic Approach to Rotation Synthesis for Fault-Tolerant Quantum Computation
29	Chao Lu, Navnil Choudhury and Kanad Basu	QuaSi: A Scalable and Reliable Quantum Simulation-based Equivalence Checking Framework
30	Jonas Winklmann, Andrea Alberti and Martin Schulz	Comparison of Atom Detection Algorithms for Neutral Atom Quantum Computing
31	Maxwell Poster, Sayam Sethi and Jonathan Baker	Cyclic Qubit Mappings
32	Fabian Kreppel, Christian Melzer, Janis Wagner, Janine Hilder, Ulrich Poschinger, Ferdinand Schmidt-Kaler and André Brinkmann	Shuttling Compiler for a Shuttling-Based Trapped-Ion Quantum Computer Architecture with Junctions
33	Shuwen Kan, Zefan Du, Miguel Palma, Samuel A Stein, Chenxu Liu, Wenqi Wei, Juntao Chen, Ang Li and Ying Mao	Scalable Circuit Cutting and Scheduling in a Resource-constrained and Distributed Quantum System
34	Jason D. Chadwick, Christopher Kang, Joshua Vizslai, Sophia Fuhui Lin and Frederic T. Chong	Averting multi-qubit burst errors in surface code magic state factories
35	Daniel Schoenberger, Stefan Hillmich, Matthias Brandl and Robert Wille	Using Compiler Frameworks for the Evaluation of Hardware Design Choices in Trapped-Ion Quantum Computers

QCE24 QSYS Track Accepted Papers

36	Suryansh Upadhyay and Swaroop Ghosh	SHARE:Secure Hardware Allocation and Resource Efficiency in Quantum Systems
37	Gideon Uchehara, Tor Aamodt and Olivia Di Matteo	Graph-based Identification of qubit NETWORK (GidNET) for Qubit Reuse Algorithm
38	Sam Westrick, Pengyu Liu, Byeongjee Kang, Colin McDonald, Mike Rainey, Mingkuan Xu, Jatin Arora, Yongshan Ding and Umut Acar	GraFeyn: Efficient Parallel Sparse Simulation of Quantum Circuits
39	Theodoros Trochatos, Chuanqi Xu, Sanjay Deshpande, Yao Lu, Yongshan Ding and Jakub Szefer	Protecting Quantum Computers with a Trusted Controller
40	Stephane Louise	Benchmarking Quantum Annealers with linear system solving
41	Brendan Reid	A simple method for compiling quantum stabilizer circuits
42	David Kremer, Victor Villar, Sanjay Vishwakarma, Ismael Faro and Juan Cruz-Benito	AI methods for approximate compiling of unitaries
43	Sanjay Vishwakarma, Francis Harkins, Siddharth Golecha, Vishal Sharathchandra Bajpe, Nicolas Dupuis, Luca Buratti, David Kremer, Ismael Faro, Ruchir Puri and Juan Cruz-Benito	Qiskit HumanEval: An evaluation benchmark for Quantum Code Generative Models
44	Amey Meher, Yuan Liu and Huiyang Zhou	Error Mitigation of Hamiltonian Simulations from an Analog-based Compiler (SimuQ)
45	Satvik Maurya, Chaithanya Naik Mude, Benjamin Lienhard and Swamit Tannu	Understanding Side-Channel Vulnerabilities in Superconducting Qubit Readout Architectures
46	Tianyi Hao, Zichang He, Ruslan Shaydulin, Marco Pistoia and Swamit Tannu	Variational Quantum Algorithm Landscape Reconstruction by Low-Rank Tensor Completion

QCE24 QAPP Track Accepted Papers

QAPP: Quantum Applications Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Francesca Cibrario, Or Samimi Golan, Giacomo Ranieri, Emanuele Dri, Mattia Ippoliti, Ron Cohen, Christian Mattia, Bartolomeo Montrucchio, Amir Naveh and Davide Corbelleto	Quantum Amplitude Loading for Rainbow Options Pricing
2	Maximilian Hess, Lilly Palackal, Abhishek Awasthi and Karen Wintersperger	Effective Embedding of Integer Linear Inequalities for Variational Quantum Algorithms
3	Nils Quetschlich, Mathias Soeken, Prakash Murali and Robert Wille	Utilizing Resource Estimation for the Development of Quantum Computing Applications
4	Anne Broadbent, Raza Ali Kazmi and Cyrus Minwalla	A quantum vault scheme for digital currency
5	Yao-Hsin Chou, Ching-Hsuan Wu, Pei-Shin Huang, Jyun-Yi Shen, Shu-Yu Kuo, Sy-Yen Kuo and Ching-Ray Chang	Exploring Quantum Annealing for Enhanced International Financial Stock Portfolio Management
6	Maria Francisca Madeira, Alessandro Poggiali and Jeanette Miriam Lorenz	Quantum Patch-Based Autoencoder for Anomaly Segmentation
7	Nils Quetschlich, Tobias Forster, Adrian Osterwind, Domenik Helms and Robert Wille	Towards Equivalence Checking of Classical Circuits Using Quantum Computing
8	Marc Andreu Marfany, Alona Sakhnenko and Jeanette Lorenz	Identifying Bottlenecks of NISQ-friendly HHL algorithms
9	Nicola Franco, Marie Kempkes, Jakob Spiegelberg and Jeanette Lorenz	Quadratic Advantage with Quantum Randomized Smoothing Applied to Time-Series Analysis
10	Edoardo Giusto, Gabriele Iurlaro, Bartolomeo Montrucchio, Alberto Scionti, Olivier Terzo, Chiara Vercellino, Giacomo Vitali and Paolo Viviani	Harnessing a 256-qubit Neutral Atom Simulator for Graph Classification
11	Lorenzo Bergadano, Andrea Ceschini, Pietro Chiavassa, Edoardo Giusto, Bartolomeo Montrucchio, Massimo Panella and Antonello Rosato	Q-SCALE: Quantum Sensor Calibration for Advanced Learning and Efficiency
12	Mitsuharu Takeori	Workforce Task Execution Scheduling using Quantum Computers
13	Hitomi Mori and Koichi Miyamoto	Quantum algorithm for copula-based risk aggregation using orthogonal series density estimation
14	Chuanqi Xu, Ferhat Erata and Jakub Szefer	Quantum Computer Fault Injection Attacks
15	Handy Kurniawan, Laura Rodríguez-Soriano, Daniele Cuomo, Carmen G. Almudever and Francisco Garcia-Herrero	On the use of calibration data in error-aware compilation techniques for NISQ devices
16	Jacob Doody, Roxanne Holden, David Zaret and Nathaniel Kavalier	Discrete Quantum Random Walks for Semantic Text Similarity (NIER)
17	Avimita Chatterjee and Swaroop Ghosh	Magic Mirror on the Wall, How to Benchmark Quantum Error Correction Codes, Overall ?
18	Srikar Kasi, James Sud, Kyle Jamieson and Gokul Subramanian Ravi	A Quantum Approximate Optimization Algorithm-based Decoder Architecture for NextG Wireless Channel Codes
19	Arnav Sharma and Kevin Obenland	Quantum Resources for Pure Thermal Shadows
20	Valter Uotila	Tensor Decompositions and Adiabatic Quantum Computing for Discovering Practical Matrix Multiplication Algorithms
21	Naoki Iijima, Satoshi Imamura, Akihiko Kasagi and Eiji Yoshida	Noise-Robust Molecule Decomposition for Variational Quantum Eigensolver
22	Maja Franz, Tobias Winker, Sven Groppe and Wolfgang Mauerer	Hype or Heuristic? Quantum Reinforcement Learning for Join Order Optimisation
23	Domenik Eichhorn, Maximilian Schweikart, Nick Poser, Frederik Fiand, Benedikt Poggel and Jeanette Miriam Lorenz	Hybrid Meta-Solving for Practical Quantum Computing
24	Romain Piron and Claire Goursaud	Scheduling quantum annealing for active user detection in a NOMA network
25	Mohammad Kashfi Haghighi and Nikitas Dimopoulos	An enhanced hybrid approach using D-Wave's CQM to solve the phase unwrapping problem
26	Supreeth Mysore Venkatesh, Antonio Macaluso, Marlon Nuske, Matthias Klusch and Andreas Dengel	Qubit-efficient Variational Quantum Algorithms for Image Segmentation
27	Monit Sharma, Hoong Chuin Lau and Rudy Raymond	Quantum Enhanced Simulation-Based Optimization for Newsvendor Problems
28	Yoshioka Takuya, Keita Sasada, Yuichiro Nakano and Keisuke Fujii	Electric Power Demand Optimization by Fermionic QAOA with Self-Consistent Local Field Modulation
29	Hiromichi Matsuyama, Wei-Hao Huang, Kohji Nishimura and Yu Yamashiro	Efficient Internal Strategies in Quantum Relaxation based Branch-and-Bound
30	Sahan Sanjaya, Daniel Volya and Prabhat Mishra	Variational Quantum Algorithms via Measurement-Induced Passive Steering
31	Dimitris Alevras, Mihir Metkar, Takahiro Yamamoto, Vaibhaw Kumar, Triet Friedhoff, Jae-Eun Park, Mitsuharu Takeori, Mariana LaDue, Wade Davis and Alexey Galda	mRNA secondary structure prediction using utility-scale quantum computers
32	Ulrik de Muelenaere, Allison O'Brien, Kelly Williams and Peter M. Kogge	Scaling of Graph Embedding for Quantum Annealers
33	Giacomo Lancellotti, Gianmarco Accordi and Gianluca Palermo	An Experimental Approach to Quantum Molecular Docking
34	Eric Ghysels, Jack Morgan and Hamed Mohammadbagherpoor	Quantum Computational Algorithms for Derivative Pricing and Credit Risk in a Regime Switching Economy
35	David Bucher, Nico Kraus, Jonas Blenninger, Jonas Stein, Michael Lachner and Claudia Linnhoff-Popien	Towards Robust Benchmarking of Quantum Optimization Algorithms
36	Tarini S. Hardikar, Kenneth Heitritter, James Brown, Ruhee D'Cunha, Abhishek Mitra, Shaun Weatherly, Yuan Liu, Matthew Otten, Troy Van Voorhis, Laura Gagliardi and Kanav Setia	Quanta-Bind: A quantum computing pipeline for modeling strongly correlated metal-protein interactions
37	Cameron Ibrahim, Teague Tomesh, Zain Saleem and Ilya Safro	Scaling Up the Quantum Divide and Conquer Algorithm for Combinatorial Optimization
38	Jinhwan Sul, Jungin Kim and Yan Wang	Quantum Functional Expansion to Solve Stochastic Differential Equations
39	Bao Bach, Jose Falla and Ilya Safro	MLQAOA: Graph Learning Accelerated Hybrid Quantum-Classical Multilevel QAOA

QCE24 QAPP Track Accepted Papers

40	Spencer Chan, Pranav Kulkarni, Paul H. Yi and Vishwa S. Parekh	Expanding the Horizon: Enabling Hybrid Quantum Transfer Learning for Long-Tailed Chest X-Ray Classification
41	Benjamin Rempfer and Kevin Obenland	Comparison of Superconducting NISQ Architectures
42	Sijia Yu, Yifan Zhou and Lizhi Wang	Quantum-Enabled Distributed Transient Stability Assessment of Power Systems
43	Richard Hua, Daniele Lorenzo, Francisco Chinesta and Philippe Codognet	Quantum Annealing Solutions for Drone Route Planning Problems
44	Valentin Gilbert, Julien Rodriguez and Stéphane Louise	Benchmarking Quantum Annealers with Near-Optimal Minor-Embedded Instances
45	Hyunju Lee and Kyungtaek Jun	Quantum optimization CT algorithms with constraints
46	Arun Vellat Sadashivan, Robin Ajmera, Shantom Kumar Borah, Akansha Kumar and Shailesh Kumar	A flexible hybrid quantum algorithm for vehicle routing
47	Ramin Ayanzadeh and Moinuddin Qureshi	Skipper: Improving the Reach and Fidelity of Quantum Annealers by Skipping Long Chains
48	Thore Gerlach, Stefan Knipp, David Biesner, Stelios Emmanouilidis, Klaus Hauber and Nico Piatkowski	Quantum Optimization for FPGA-Placement
49	Shubdeep Mohapatra and Huiyang Zhou	Understanding Error Sensitivity of Quantum Circuits
50	Dario Rocca, Matthias Loipersberger, Jerome F. Gonthier, Robert M. Parrish, Jisook Hong, Byeol Kang, Chanshin Park and Hong Woo Lee	Towards Quantum Simulations of Lithium Diffusion in Solid State Electrolytes for Battery Applications
51	Muralikrishnan Gopalakrishnan Meena, Yu Zhang, Weiwen Jiang, Youzuo Lin, Stefanie Guenther and Xinfeng Gao	Towards a Quantum Algorithm for the Incompressible Nonlinear Navier--Stokes Equations
52	Taehee Ko, Xiantao Li and Chunhao Wang	Ground Energy and Related Properties Estimation in Quantum Chemistry with Linear Dependence on the Number of Atoms
53	Sebastian Zielinski, Jonas Nüßlein, Michael Kölle, Thomas Gabor, Claudia Linnhof-Popien and Sebastian Feld	Solving MAX-3SAT using QUBO approximation
54	Yan Jin, Monit Sharma, Hoong Chuin Lau and Rudy Raymond	Quantum Relaxation for Solving Multiple Knapsack Problems

QML: Quantum Machine Learning Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Hiroshi Yamauchi, Tomah Sogabe and Rodney Van Meter	Parametrized Energy-Efficient Quantum Kernels for Network Service Fault Diagnosis
2	Priyabrata Senapati, Samuel Yen-Chi Chen, Bo Fang, Tushar Athawale, Ang Li, Weiwen Jiang, Cheng Chang Lu and Qiang Guan	PQML: Enabling the Predictive Reproducibility on NISQ Machines for Quantum ML Applications
3	Kilian Tschärke, Sebastian Issel and Pascal Debus	QUACK: Quantum Aligned Centroid Kernel
4	Maureen Monnet, Nermine Chaabani, Theodora-Augustina Dragan, Balthasar Schachtner and Jeanette Miriam Lorenz	Understanding the effects of data encoding on quantum-classical convolutional neural networks
5	Maximilian Wendlinger, Kilian Tschärke and Pascal Debus	A Comparative Analysis of Adversarial Robustness for Quantum and Classical Machine Learning Models
6	Nico Meyer, Jakob Muraier, Alexander Popov, Christian Ufrecht, Axel Plinge, Christopher Mutschler and Daniel D. Scherer	Warm-Start Variational Quantum Policy Iteration
7	Nicola Franco, Alona Sakhnenko, Leon Stolpmann, Daniel Thuerck, Fabian Petsch, Annika Rüll and Jeanette Lorenz	Predominant Aspects on Security for Quantum Machine Learning: Literature Review
8	Sabrina Herbst, Vincenzo De Maio and Ivona Brandic	On Optimizing Hyperparameters for Quantum Neural Networks
9	Simon Eisenmann, Daniel Hein, Steffen Udluft and Thomas Runkler	Model-based Offline Quantum Reinforcement Learning
10	Tobias Rohe, Daniëlle Schuman, Jonas Nüßlein, Leo Sünkel, Jonas Stein and Claudia Linnhoff-Popien	The Questionable Influence of Entanglement in Quantum Optimisation Algorithms
11	Maniraman Periyasamy, Axel Plinge, Christopher Mutschler, Daniel D. Scherer and Wolfgang Maurer	Guided-SPSA: Simultaneous Perturbation Stochastic Approximation assisted by the Parameter Shift Rule
12	Samuel Yen-Chi Chen	Differentiable Quantum Architecture Search in Asynchronous Quantum Reinforcement Learning
13	Xin Dai, Tzu-Chieh Wei, Shinjae Yoo and Samuel Yen-Chi Chen	Quantum Machine Learning Architecture Search via Deep Reinforcement Learning
14	Tom Wollschläger, Aman Saxena, Nicola Franco, Jeanette Miriam Lorenz and Stephan Günnemann	Discrete Randomized Smoothing Meets Quantum Computing
15	Shamminuj Aktar, Andreas Bärtzchi, Diane Oyen, Stephan Eidenbenz and Abdel-Hameed Badawy	Graph Neural Networks for Parameterized Quantum Circuits Expressibility Estimation
16	Shuwen Kan, Miguel Palma, Zefan Du, Samuel A Stein, Chenxu Liu, Juntao Chen, Ang Li and Ying Mao	Benchmarking Optimizers for Qumode State Preparation with Variational Quantum Algorithms
17	Max Cui, Adelina Chau, Linda Chang, Leena Adwankar, Hasset Mekuria and Sriaditya Pendyala	Efficient and Optimized Small Organic Molecular Graph Generation Pathway Using a Quantum Generative Adversarial Network with Graph Convolution
18	Aman Saxena, Tom Wollschläger, Nicola Franco, Jeanette Miriam Lorenz and Stephan Günnemann	Certiably Robust Encoding Schemes
19	Junghoon Park, Samuel Yen-Chi Chen, Shinjae Yoo and Huan-Hsin Tseng	Over the Quantum Rainbow: Explaining Hybrid Quantum Reinforcement Learning
20	Costantino Carugno, Maurizio Ferrari Dacrema and Paolo Cremonesi	Adaptive Learning for Quantum Linear Regression
21	Philipp Altmann, Jonas Stein, Michael Kölle, Adelina Bärtligea, Maximilian Zorn, Thomas Gabor, Thomy Phan, Sebastian Feld and Claudia Linnhoff-Popien	Challenges for Reinforcement Learning in Quantum Circuit Design
22	Anupama Ray, Dhiraj Madan, Srushti Pati, Pushpak Pati, Mananina Kapsornaniki, Aviwe Kohlakala, Thembelihle Dlamini, Stephanie Julia Muller, Kahn Rhrissorakrai, Filipe Hte and Leumi David	Hybrid quantum-classical graph neural networks for tumor classification in digital pathology
23	Georg Kruse, Rodrigo Coelho, Andreas Roszkopf, Robert Wille and Jeanette Lorenz	Hamiltonian-based Quantum Reinforcement Learning for Neural Combinatorial Optimization
24	Abdallah Aaraba, Soumaya Cherkaoui, Ola Ahmad, Jean-Frédéric Laprade, Olivier Nahman-Lévesque, Alexis Vieloszynski and Shengrui Wang	QuaCK-TSF: Quantum-Classical Kernelized Time Series Forecasting
25	Philipp Moser, Alexander Maletzky and Michael Giretzlehner	An Empirical Analysis of Realistic Noise in Quantum Neural Networks for Medical Classifications of Tabular, Signal and Imaging Data
26	Razieh Abdolahi, M. Reza Soleymani and Walaa Hamouda	Innovative Quantum K-Means Clustering Using a Multi-Distance Measurement Circuit
27	Ethan Hunt, Hieu Nguyen and Tu Nguyen	Exploring the State Vector Classification Algorithm and Its Quantum Equivalent
28	Ilmo Salmenperä, Ilmars Kuhtarskis, Jukka K. Nurminen and Arianne Meijer-van de Griend	The Impact of Feature Embedding Placement in the Ansatz of a Quantum Kernel in QSVMs
29	Jérémie Gince, Jean-Michel Pagé, Marco Armenta, Ayana Sarkar and Stefanos Kourtis	Fermionic Machine Learning
30	Jose Pablo Pinilla and Steve Wilton	Structural Modifications in Quantum-Assisted Training for General Boltzmann Machines
31	Jose Pablo Pinilla and Steve Wilton	Quantum-Assisted Machine Learning Framework: Training and Evaluation of Boltzmann Machines using Quantum Annealers
32	Darya Martyniuk, Johannes Jung and Adrian Paschke	Quantum Architecture Search: A Survey
33	Jay Shah, Rut Lineswala and Abhishek Chopra	Benchmarking Quantum-Assisted PINN (QA-PINN) for Computational Fluid Dynamics
34	Mandeep Saggi and Sabre Kais	MQML: Multi-omic Quantum Machine Learning based Cancer Classification, Biomarker Identification in Human Lung Adenocarcinoma
35	Maximilian Zorn, Jonas Stein, Philipp Altmann, Michael Kölle, Claudia Linnhoff-Popien and Thomas Gabor	Cohesive Quantum Circuit Layer Construction with Reinforcement Learning
36	Kyle Sherbert, Jim Furches, Karunya Shirali, Carlos Ortiz Marrero and Sophia Economou	Adaptive Quantum Generative Training using an Unbounded Loss Function

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QNET: Quantum Networking and Communications Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Jyoti Faujdar, Muhammad Asad Ullah, Mbarka Soualhia and Anne Broadbent	Secret Addressing Scheme using Distributed Quantum Computing
2	Gayane Vardoyan, Scarlett Gauthier and Thirupathaiiah Vasantam	An on-demand resource allocation algorithm for a quantum network hub and its performance analysis
3	Albert Williams, Nitish Kumar Panigrahy, Andrew McGregor and Don Towsley	Scalable Scheduling Policies for Quantum Satellite Networks
4	Gurleen Padda, Edwin Tham, Aharon Brodutch and Dave Touchette	Improving Qubit Routing by Using Entanglement Mediated Remote Gates
5	Walter Krawec, Bing Wang and Ryan Brown	Finite Key Security of Simplified Trusted Node Networks
6	Ronald Maule, Nitish K. Panigrahy, Naga Lakshmi Anipeddi, Prajit Dhara, Deirdre Kilbane, Zakir Hossain, Walter O. Krawec, Don Towsley and Bing Wang	Fair and Efficient Scheduling Strategies for Satellite Assisted QKD Systems
7	Damian Schon, Prathwiraj Umesh, You-Wei Cheah, Se-Young Yu, Ezra Kissel, Venkata Ramana Raju Valivarthi, Erhan Saglamyurek, Lavanya Ramakrishnan, Wenii Wu, Alb Sipahigil, Maria Spiropulu, Hartmut Haffner and Inder Monga	The QUANT-NET Testbed Development and Preliminary Results
8	Jason T. LeGrow, Travis Morrison, Jamie Sikora and Nic Swanson	Masking Countermeasures Against Side-Channel Attacks on Quantum Computers
9	Evan Anderson, Christopher Eyre, Isabel Dailey, Filip Rozpedek and Boulat Bash	Square Root Law for Covert Quantum Communication over Optical Channels
10	George Typaldos, Wei Tang and Jakub Szefer	Leveraging Quantum Circuit Cutting for Obfuscation and Intellectual Property Protection
11	Phuong Cao, Jakub Sowa and Bach Hoang	Post-Quantum Cryptography (PQC) Network Instrument: Measuring PQC Adoption Rates and Identifying Migration Pathways
12	Mariam Gado and Muhammad Ismail	Cyber Layer Upgrade in Power Systems to Support Semi-Quantum Key Distribution
13	Álvaro G. Iñesta, Hyeonrak Choi, Dirk Englund and Stephanie Wehner	Quantum Circuit Switching with One-Way Repeaters in Star Networks
14	Ian Tillman, Thirupathaiiah Vasantam, Don Towsley and Kaushik Seshadreesan	Calculating the Capacity Region of a Quantum Switch
15	Naphan Benchasattabuse, Michal Hajdušek and Rodney Van Meter	Architecture and Protocols for All-photonic Quantum Repeaters
16	Yoshihiro Mori, Toshihiko Sasaki, Rikizo Ikuta, Kentaro Teramoto, Hiroyuki Ohno, Michal Hajdusek, Rodney Van Meter and Shota Nagayama	Scalable Timing Coordination of Bell State Analyzers in Quantum Networks
17	Marii Koyama, Claire Yun, Amin Taherkhani, Naphan Benchasattabuse, Bernard Ousmane Sane, Michal Hajdusek, Shota Nagayama and Rodney Van Meter	Optimal Switching Networks for Paired-Egress Bell State Analyzer Pools
18	Sahar Ben Rached, Sergio Navarro Reyes, Junaid Khan, Carmen Garcia Almudéver, Eduard Alarcón and Sergi Abadal	Benchmarking emerging quantum interconnect technologies for modular quantum computers
19	Kento Samuel Soon, Naphan Benchasattabuse, Michal Hajdusek, Kentaro Teramoto, Shota Nagayama and Rodney Van Meter	Performance of Quantum Networks Using Heterogeneous Link Architectures
20	Paolo Fittipaldi, Kentaro Teramoto, Naphan Benchasattabuse, Michal Hajdušek, Rodney Van Meter and Frédéric Grosshans	Entanglement Swapping in Orbit: a Satellite Quantum Link Case Study
21	Aparimit Chandra, Filip Rozpedek and Don Towsley	Role of Error Correction in Teleportation Scheduling
22	Ranjani G Sundaram, Himanshu Gupta and C. R. Ramakrishnan	Distributed Quantum Computation with Minimum Execution Time over Quantum Networks
23	Leonardo Bacciotini, Luciano Lenzini, Enzo Mingozzi and Giuseppe Anastasi	DeSQribe: Design and Synthesize Quantum Network Interoperable Protocols for Entanglement Distribution
24	Krystal Maughan, Christelle Vincent and Joseph Near	Foldable, Recursive Proofs of Isogeny Computation with Reduced Time Complexity
25	Allen Zang, Joaquin Chung, Rajkumar Kettimuthu, Martin Suchara and Tian Zhong	Analytical Performance Estimations for Quantum Repeater Network Scenarios
26	Kenneth Gregory, Konrad Socha, Khaled Mnaymned and Connor Kupchak	Performance of a hot Rb vapour based portable Quantum Memory
27	Ranjani G Sundaram and Himanshu Gupta	Optimized Generation of Entanglement by Real-Time Ordering of Swapping Operations
28	Siyi Chen, Jessica Illiano, Angela Sara Cacciapuoti and Marcello Caleffi	Scaling Quantum Networks: Inter-QLANs Artificial Connectivity

QTEM: Quantum Technologies and Systems Engineering Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Daniel Volya and Prabhat Mishra	Quantum Benchmarking via Random Dynamical Quantum Maps
2	Franco Cirillo and Christian Esposito	Practical Evaluation of a Quantum Physical Unclonable Function and Design of an Authentication Scheme
3	Bernard Ousmane Sane, Praveen Balaji, Michal Hajdušek, Liang Jiang and Rodney Van Meter	Reduction of Resources for a Fault-tolerant qRAM using Pieceable Bucket-Brigade Schemes
4	Hung-Chun Lin, Yin-Cheng Chang, Ho-Chun Wu, Chien-Yuan Chang, Chih-Cheng Lin, Yeke Liu, Da-Chiang Chang and Shawn S. H. Hsu	Miniaturized Low-Pass Filter Using IPD Technology for Cryogenic Quantum Applications
5	Hans Johnson, Silvia Zorzetti, Jafar Saniie, Nicholas Bornman, Taeyoon Kim and David Van Zanten	Demonstrating the Potential of Adaptive LMS Filtering on FPGA-Based Qubit Control Platforms for Improved Qubit Readout in 2D and 3D Quantum Processing Units
6	Xiqiao Wang, Joel Howard, Eyob Sete, Greg Stiehl, Cameron Kopas, Stefano Poletto, Xian Wu, Mark Field, Nicholas Sharac, Christopher Eckberg, Hilal Cansizoglu, Raja Katta, Josh Mutus, Andrew Bestwick, Kameshwar Yadavalli and David Pappas	Precision frequency tuning of tunable transmon qubits using alternating-bias assisted annealing
7	Pierre-Antoine Mouny, Maher Benhouria, Victor Yon, Linxiang Huang, Patrick Dufour, Sophie Rochette, Yann Beilliard, Dominique Drouin and Poova Ronagh	Towards a Cryogenic CMOS-Memristor Neural Decoder for Quantum Error Correction
8	Pranav Gokhale, Caitlin Carnahan, William Clark and Fred Chong	Deep Learning for Low-Latency, Quantum-Ready RF Classification
9	Jan Balewski, Milan Kornjaca, Katie Klymko, Siva Darbha, Mark Hirsbrunner, Pedro Lopes, Fangli Liu and Daan Camps	Engineering quantum states with neutral atoms
10	Moritz Singer, Benedikt Schoof, Harsh Gupta, Daniela Zahn, Johannes Weber and Marc Tornow	Tantalum thin films sputtered on silicon and on different seed layers: material characterization and coplanar waveguide resonator performance
11	Benedikt Schoof, Moritz Singer, Simon Lang, Harsh Gupta, Daniela Zahn, Johannes Weber and Marc Tornow	Development of TiN/AlN-based superconducting qubit components
12	Hiu Yung Wong, Kristin M. Beck, Vito Mariano Iaia, Anika Zaman and Yaniv Jacob Rosen	Study of Phase Method in Tantalum Superconducting Qubit T2* Measurements
13	Shilpa Narasimhan, Keshav Kasturi Rangan and Helen Durand	Investigating the Mitigation of Impact of Nondeterminism on Processes with Control Implemented on Quantum Devices
14	Jessie Chen and Jakub Szefer	Counting Bases from Number of Qubits: Inferring VRP from Quantum Circuits
15	Qun Li, Moyang Xie and Sheng Zhong	Privacy-Preserving Quantum Annealing for Quadratic Unconstrained Binary Optimization (QUBO) Problems
16	Guoting Cheng and Jing Guo	Noise Correlation in Silicon Spin Qubits: A Computational Study
17	Austin Thomas, Colton Mikes, Shawn Wilder, Melinda Andrews, Thomas Halverson and Heath Joshua	Gauge Fixed Nonlinear Regression for Two-qubit Processors
18	Shihao Wang, Odette Bakam Nguenouho and Jean-Francois Bousquet	A High-frequency DC SQUID Magnetic Sensor Design
19	Temitope Adeniyi and Sathish Kumar	Reinforcement Learning based Actor Critic and Policy Agent for Optimizing Quantum Sensor Circuit Design
20	Bikrant Bhattacharyya, Fredy An, Dominik Kozbiel, Andy Goldschmidt and Frederic Chong	Using optimal control to guide neural-network interpolation of continuously-parameterized gates
21	Ahmad Alomari and Sathish Kumar	QRA: Quantum Reinforcement Agent for Generating Optimal Quantum Sensor Circuits
22	Nahid Binandeh Dehaghani, A. Pedro Aguiar and Rafal Wisniewski	A Hybrid Quantum-Classical Physics-Informed Neural Network Architecture for Solving Quantum Optimal Control Problems
23	Kamila Zaman, Alberto Marchisio, Muhammad Kashif and Muhammad Shafique	PO-QA: Portfolio Optimization-Quantum Algorithm using Quantum Machine Learning
24	Travis Hurant, Ke Sun, Zhubing Jia and Kenneth Brown	Few-Shot, Robust Calibration of Single Qubit Gates Using Bayesian Robust Phase Estimation
25	Daniel Volya, Andrey Nikitin and Prabhat Mishra	Fast Quantum Process Tomography via Riemannian Gradient Descent
26	Joshua Hanson and Dennis Lucarelli	Constructing Noise-Robust Quantum Gates via Pontryagin's Maximum Principle



QPHO: Quantum Photonics Track — Accepted Technical Papers		
#	Technical Paper Authors	Technical Paper Title
1	Connor Kupchak, Abubaker Tareki, Tara Moradi, Patrick Laferriere, Niall Tait and Khaled Mnaymneh	Development of a fabrication-to-benchtop process for SiN-based quantum devices
2	Grégoire de Glinasty, Paul Bagourd, Sebastien Draux and Boris Bourdoncle	Simple rules for two-photon state preparation with linear optics
3	Md Shariful Islam, Joaquin Chung, Anirudh Ramesh, Prem Kumar and Rajkumar Kettimuthu	Experiences on Developing an On-Demand Entanglement Service Coexisting with Classical Traffic over a O-LAN Testbed
4	Khezz Sanjani, Peng Zhang, Nima Nikmehr and Yacov Shamash	A Quantum Cooperative Game Approach to Resilience-Oriented Microgrids Operation
5	S. Andrew Lanham and Brian R. La Cour	Quantum Resource States from Post-selected Classical Mixed States
6	Matteo Sanna, Alessio Baldazzi, Nicolò Broseghini, Gioele Piccoli, Martino Bernard, Fabio Acerbi, Georg Pucker, Stefano Azzini, Mher Ghulinyan and Lorenzo Pavesi	Toward a room-temperature fully-integrated photonic quantum simulator
7	Vladimir Pešić, Andrew Wright and Edoardo Charbon	From Master equation to SPICE: a platform to model cryo-CMOS control for qubits
8	Frédéric Bouchard, Kate Fenwick, Duncan England, Philip Bustard, Khabat Heshami and Benjamin Sussman	Quantum applications of ultrafast time-bin encoding
9	Zoltán Kolarovszki, Dániel T. R. Nagy and Zoltán Zimborás	On the learning abilities of photonic continuous-variable Born machines