

QC-CSAA: Workshop on Quantum Computing: Circuits Systems Automation and Applications		
Virtual/Online Event in conjunction with ISVLSI 2021		
Eastern Day Time (EDT)/UTC-04:00	9-Jul-21	
2pm-2.05 pm	Welcome to 2021 QC-CSAA: Workshop on Quantum Computing: Circuits Systems Automation and Applications	Himanshu Thapliyal (University of Kentucky, USA); Travis Humble (Oak Ridge National Laboratory, USA)
2.05 pm-3 pm	Invited Talk	Alexandru Paler, Aalto University, Espoo, Finland
3 pm-3.12pm	Analyzing Crosstalk Error in the NISQ Era	Siyuan Niu (LIRMM, University of Montpellier, France); Aida Todri-Sanial (CNRS LIRMM, France)
3.12pm-3.24 pm	Fast Quantum Circuit Simulation Using Hardware Accelerated General Purpose Libraries	Oumarou Oumarou (University of Passau, Germany); Alexandru Paler (Johannes Kepler University Linz, Austria); Robert Basmadjian (Technical University of Clausthal, Germany)
3.24 pm-3.36 pm	A Quantum Variational Approach to Debugging Combinational Logic Circuits	Peter Demetriou (University of the Witwatersrand, South Africa); Conrad Joseph Haupt (The University of the Witwatersrand, Johannesburg, South Africa); Ken J Nixon (University of the Witwatersrand, South Africa)
3.36pm-3.48pm	Towards Maximizing Entanglement of Microwave Quantum Circuit With Reinforcement Learning	Meriam Gay Bautista, Jackie Yao and Anastasiia Butko (Lawrence Berkeley National Laboratory, USA); Mariam Kiran (Lawrence Berkeley National Lab, USA); Mekena Metcalf (Lawrence Berkeley National Laboratory, USA)
12 min break		
4.00 pm-4.12 pm	Implementation of Grover's Algorithm to Solve the Maximum Clique Problem	Sonia Lopez Alarcon and Andrew Haverly (Rochester Institute of Technology, USA)
4.12 pm-4.24pm	Importance of Diagonal Gates in Tensor Network Simulations	Danylo Lykov (Northern Illinois University & Argonne National Laboratory, USA); Yuri Alexeev (Argonne National Laboratory, USA)
4.24pm-4.36 pm	Quantum Annealing for Automated Feature Selection in Stress Detection	Rajdeep Nath and Himanshu Thapliyal (University of Kentucky, USA); Travis Humble (Oak Ridge National Laboratory, USA)
4.36pm-4.48 pm	Reproducibility in Quantum Computing	Samudra Dasgupta (University of Tennessee, USA); Travis Humble (Oak Ridge National Laboratory, USA)
4.48 pm-5.00 pm	Automated Flag Qubit Insertion for Reliable Quantum Circuit Output	Nikita Acharya and Samah Saeed (The City College of New York, CUNY, USA)
5.00 pm-5.10 pm	Workshop Concluding Remarks	Himanshu Thapliyal (University of Kentucky, USA); Travis Humble (Oak Ridge National Laboratory, USA)