



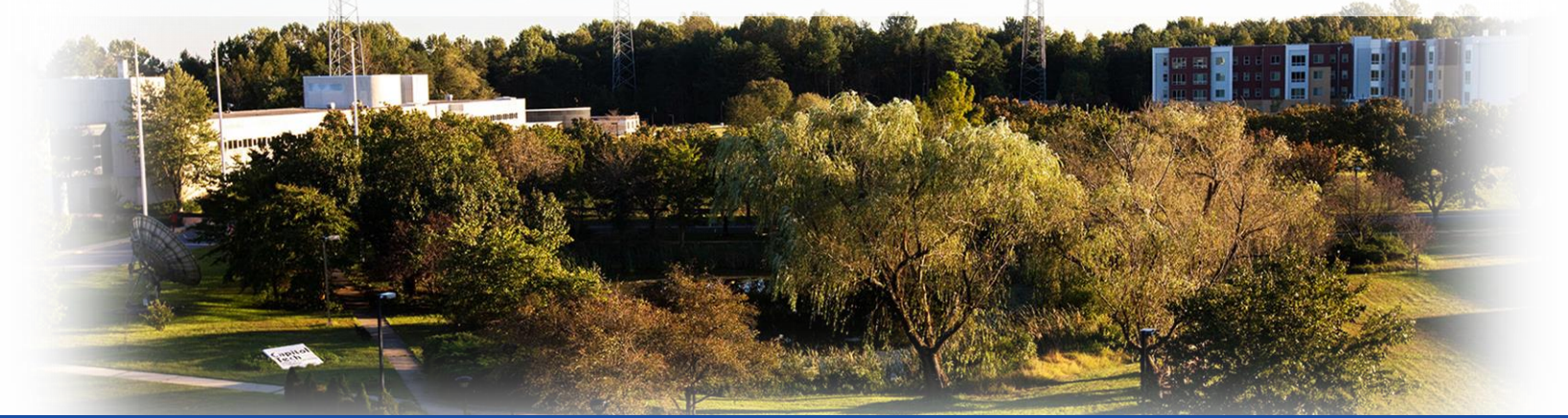
CEC 2020



CAPITOL
Technology University

QUANTUM COMPUTING & ENGINEERING CONFERENCE

June 5-6, 2020



QCEC 2020 – Advancing Quantum Science, Technology, and Engineering 1st Annual ACM Conference for Researchers, Educators, and Computing Professionals

The Twin Cities ACM Professional Chapter is teaming up with Capitol Technology University as host for QCEC 2020: Quantum Computing & Engineering Conference, a first annual venue for presentation of original research and engagement with research labs in this rapidly advancing discipline. QCEC 2020 features prominent keynotes, industry-faculty panels, and peer-reviewed paper presentations. The two-day event has a rich and varied program on quantum computing and information theory engaging faculty, students, and computing professionals.

ACM DISTINGUISHED KEYNOTE
Quantum Inspired Automatic Image Clustering
by Dr. Siddhartha Bhattacharya,
Senior Research Scientist,
VSB Technical University,
Czech Republic

PROGRAM

This 1st QCEC Conference features a rich two-day program with prominent keynotes, researcher panels, and peer-reviewed papers presentations.

IMPORTANT DATES

Item	Date
Call for Paper Abstracts Opens; General Registration Opens	Sept. 1, 2019
Paper Submissions Due (Rolling review/acceptance)	Feb. 15, 2020
Papers Accepted/ Author(s) Invited to Present	May 1, 2020
Early Registration Deadline	April 1, 2020
Full Papers Due for Proceedings	May 31, 2020
Registration Deadline	May 31, 2020

Supported by Quantum Computing & Cryptography Research Lab at Capitol Technology University

© 2019 Minneapolis ACM Professional Chapter
The Chapter is part of the Association for Computing Machinery, the world's largest educational and scientific computing society.

Learn more, respond to call for papers, and register at

Easychair.org/cfp/QCEC2020

CALL for PAPERS (Proposals due by Feb. 15):

- **Quantum Computing Algorithms:** Improving QC systems performance, End-to-end QC algorithms, Lattice-Based Algorithms, etc.
- **QC Technologies:** Building QC systems, Underlying QC technologies, Supporting Software Layers.
- **Programming environments and toolchains for QC:** QC applications and constraints using high-level abstractions, QC hardware or simulators.
- **Quantum Information Science (QIS):** Sensing and metrology, Communications, and Computing and simulation.
- **Quantum Information Theory and Architectures:** Transitioning QC from undifferentiated qubit arrays to differentiated organizational structures.
- **QC and AI:** Impact of Quantum Computing on Artificial Intelligence and Machine Learning, Machine Learning Algorithms in Traditional Programming Languages vs Quantum Programming Tools.
- **QC and Cybersecurity:** Quantum-enabled cryptography and cybersecurity.
- **Global Research:** Research, Development, Policy, and Inter-lab Collaboration.

REGISTER TODAY (includes breakfast & lunch):

<https://qcec2020.eventbrite.com>

Questions? Contact Dr. Chuck Easttom at wceasttom@captechu.edu