



CALL FOR PAPERS

ICSQE 2020
Mar 02-03, 2020
Rio de Janeiro, Brazil

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICSQE 2020 : International Conference on Silicon Quantum Electronics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Silicon Quantum Electronics. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Silicon quantum electronics and devices
Silicon quantum information processing
Silicon quantum integrated circuits
Technological advancements and challenges
Silicon-related qubit implementations (e.g., Si, SiGe, Ge)
Qubit implementations in silicon and silicon-germanium
Advances in materials and fabrication approaches for Si and SiGe qubits

Cryogenic classical (nano)-electronics and classical electronic interfaces with qubits
Computer assisted design and analysis of donor and quantum dot architectures
Theory and modeling of charge and spin decoherence mechanisms in silicon
Dynamic decoupling and other control techniques to suppress decoherence in Si related qubits
Quantum error correction for Si and SiGe qubits
Approaches to multi-qubit and coherent on-chip communication
Hybrid-qubit approaches combining Si and/or SiGe with other qubit systems