



# CALL FOR PAPERS

**ICQCEAA 2022**  
**Jun 03-04, 2022**  
**New York, USA**

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.

ICQCEAA 2022 : International Conference on Quantum Control Engineering and Advanced Algorithms is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Quantum Control Engineering and Advanced Algorithms. 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:

Quantum control engineering  
Advances in quantum control engineering  
Applications of quantum control engineering  
Quantum measurement  
Feedback and stability applications  
Quantum control engineering: mathematical principles and applications  
Quantum filtering and the application to quantum measurement and metrology  
Quantum open-loop schemes  
Quantum feedback networks and the design of quantum controllers  
Quantum statistics and estimation and the connection with filtering and control  
Quantum information processing and its relevance to quantum control and error correction  
Quantum control mechanism analysis

Quantum observable control landscapes  
Local controllability  
Quantum gate control mechanism analysis  
Robust control of quantum dynamics  
Quantum control robustness analysis and robust control algorithms  
Microchips and computing  
Encryption and cyber-security  
Communications  
High-precision sensing  
Space and aerospace  
Defence and security