

A New Scheduling Framework for Multi-Programming Quantum Computing in Cloud Settings

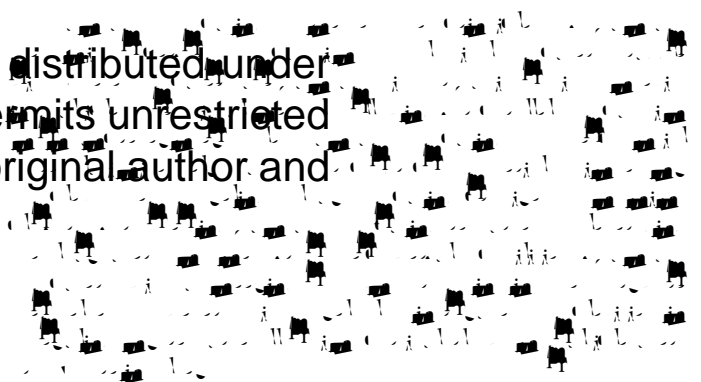
S

onia, Greece, E-mail: sanchoegeorgios@gmail.com

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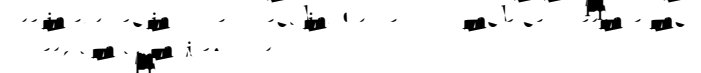


Quantum-aware resource allocation

Qubit and gate scheduling:

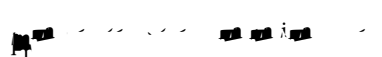


Error mitigation:



Multi-tenant management

Fairness algorithms:



Resource quotas:

Dynamic adaptation

Real-time monitoring:

Adaptive scheduling policies:

Task prioritization and optimization

Heuristic and optimization algorithms:

Resource estimation:

Benefits and implications

The proposed scheduling framework offers several benefits:

Improved efficiency:

Enhanced user experience:

Scalability:

Reduced errors:

Conclusion

The proposed scheduling framework offers several benefits: Improved efficiency, Enhanced user experience, Scalability, and Reduced errors.

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