

# SQGA: QUANTUM GENETIC ALGORITHM-BASED WORKFLOW SCHEDULING IN FOG-CLOUD COMPUTING

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# INTRODUCTION

a)

**Fog Computing  
and its role in  
Cloud  
infrastructure**

b)

**Importance of  
task scheduling  
in Fog-Cloud  
environments.**

c)

**Importance of  
task scheduling  
in Fog-Cloud  
environments.**

# Methodology

a)

**problem of  
workflow task  
scheduling**

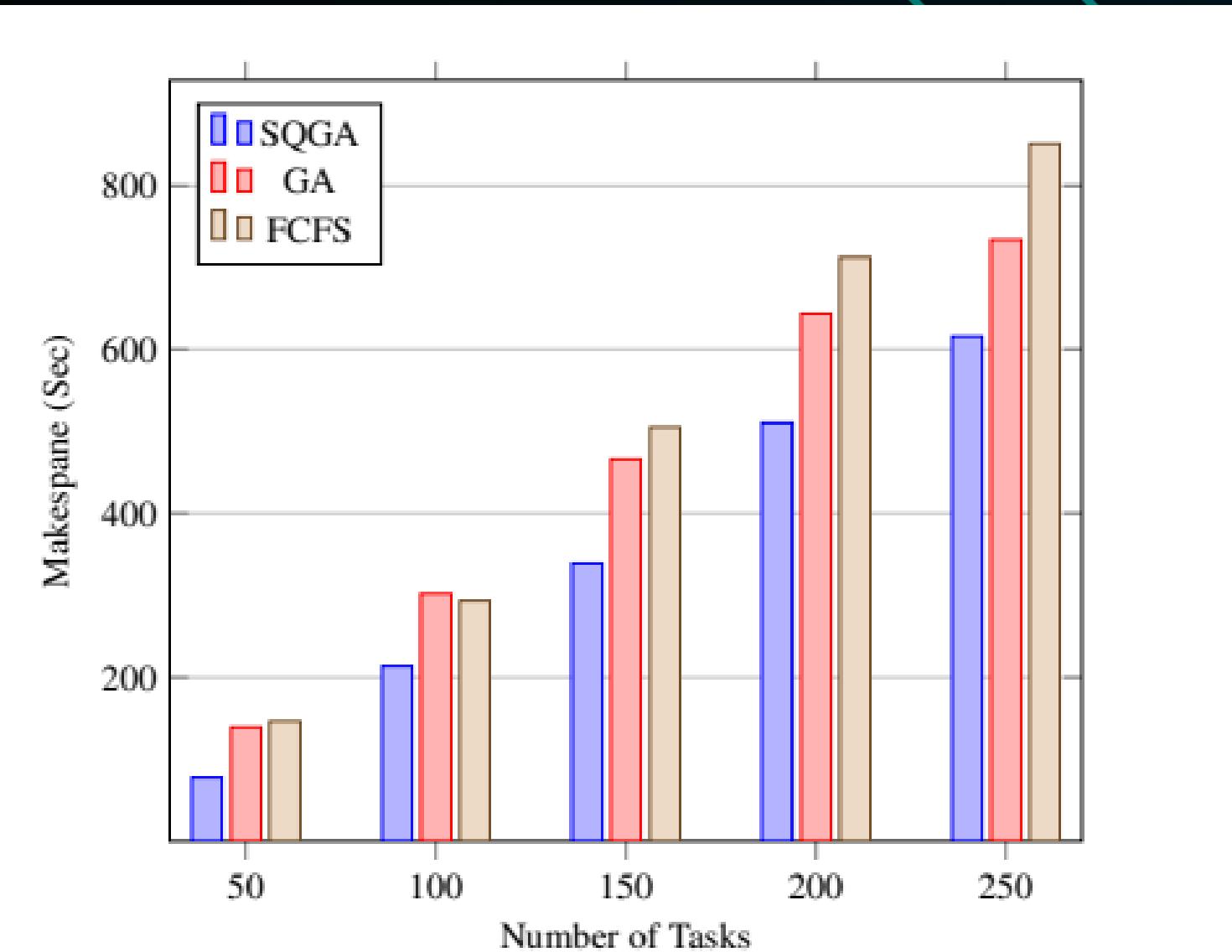
b)

**The  
components of  
workflow  
including tasks,  
nodes,  
execution time**

c)

**foundation for  
the SQGA  
algorithm**

# Result



Proposed SQGA scheduling algorithm outperforms both GA and FCFS algorithms by 40% and 50% in makespan, respectively

# Limitations

a)

**Scalability  
of the  
algorithm**

b)

**Importance of  
task scheduling  
in Fog-Cloud  
environments.**

c)

**other quality of  
service (QoS)  
metrics should  
be considered**

# Conclusions

Key takeaways from the paper

success of the SQGA algorithm in improving scheduling in Fog-Cloud environments.

future directions and potential enhancements for the research