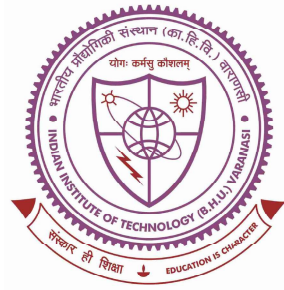


Multi Objective Task Scheduling in Cloud Environment



**Thesis submitted in partial fulfilment
for the Award of
DOCTOR OF PHILOSOPHY
in
COMPUTER SCIENCE AND ENGINEERING**

by
SWATI GUPTA

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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List of abbreviations

Roman Symbols

ACO	Ant Colony Optimization
CSO	Cat Swarm Optimisation
DAG	Directed Acyclic Graph
DE	Differential Evolution
EDF	Earliest Deadline First
FCFS	First Come First Serve
GA	Genetic Algorithm
GSA	Gravitational Search Algorithm
GWO	Grey Wolf Optimisation
HEFT	Heterogeneous Earliest Finish Time
HS	Harmony Search
IaaS	Infrastructure as a Service
IJHS	Improved Jaya Harmony Search
LIGO	Laser Interferometer Gravitational-wave Observatory
MCSO	Merged CSO PSO
NIST	National Institute of Standards and Technology
PaaS	Platform as a Service

PC	Personal Computer
PP	Processor to Processor Cost Matrix
PSO	Particle Swarm Optimisation
QoS	Quality of Service
RR	Round Robin
SA	Simulated Annealing
SaaS	Software as a Service
SIPHT	Scalable Integrated Performance
TP	Task to Processor Cost Matrix
VM	Virtual Machine
WOA	Whale Optimisation Algorithm