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LIST OF SYMBOLS AND ABBREVIATIONS

API	-	Application Programming Interface
ANL	-	Argonne National Laboratory
b_i	-	Budget
CPU	-	Central Processing Unit
g_i	-	Communication Overhead
CPM	-	Compute Power Market
C_i	-	Cost
DB	-	Database
d_i	-	Deadline
DBC	-	Deadline and Budget Constrained
DA	-	Deal Accepted
DN	-	Deal Not accepted
DT	-	Deal Template
β	-	Decimal Value in Job Declining Algorithm
α	-	Decimal value in Job Offering Mechanism
λ	-	Decimal Value in Pricing Mechanism
DA	-	Deployment Agent
DIM	-	Distributed Information Manager
DNS	-	Domain Name Service
EDF	-	Earliest Deadline First
EP	-	Economic Pricing
ETC	-	Expected Time to Compute
n	-	Finite Number
FCFS	-	First Come First Served
GARA	-	Globus Architecture for. Reservation and Allocation
GA	-	Grid Association

GAA	-	Grid Association Agent
GE	-	Grid Explorer
GMD	-	Grid Market Directory
GPs	-	Grid Participants
GRAEP	-	Grid Resource Architecture for Economic Pricing
GRBs	-	Grid Resource Broker
GRM	-	Grid Resource Manager
GSPs	-	Grid Service Providers
GTS	-	Grid Trading Server
HLS	-	Heuristic Local Search
HR	-	Heuristic Rule
HSA	-	Heuristic Simulated Annealing
HTS	-	Heuristic Tabu Search
IB	-	Incentive Based
IJRM	-	Incentive Based Job and Resource Management
IF	-	Independent Factor
IP	-	Internet Protocol
J_i	-	Job
JCA	-	Job Control Agent
l_i	-	Job Length
LAN	-	Local Area Network
LRMS	-	Local Resource Management System
MRA	-	Market Resource Agent
MRB	-	Market Resource Broker
MI	-	Million Instructions
MIPS	-	Million Instructions per Second
MCT	-	Minimum Completion Time
MET	-	Minimum Execution Time
MDS	-	Monitoring and Discovery Service

NASA	-	National Aeronautics and Space Administration
NASDAQ	-	National Association of Securities Dealers Automatic Quotation
NAS	-	Network Attached Storage
NWS	-	Network Weather Service
NP	-	Non Preemptive
OHR	-	Optimistic Heuristic Rule
OFC	-	Optimization For Cost
OFT	-	Optimization For Time
P2P	-	Peer to Peer
PBS	-	Portable Batch System
P_i	-	Processor
QoS	-	Quality of Service
RAM	-	Random Access Memory
RMS	-	Resource Management System
SA	-	Service Activities
SAD	-	Shared Association Directory
SJF	-	Shortest Job First
Σ	-	Sigma
SGI	-	Silicon Graphics Inc
SDK	-	Software Development Kit
e_i	-	Speed
ε	-	Step of threshold value in penalty factor
SAN	-	Storage Area Network
SGE	-	Sun Grid Engine
SF	-	Synthetic Forces
TH	-	Threshold
TM	-	Trade Manager
TS	-	Trade Server

h_i	-	Underlying interconnect network bandwidth
VO	-	Virtual Organizations
VPN	-	Virtual Private Network