International Journal of

Grid and Utility Computing

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Scope of the Journal

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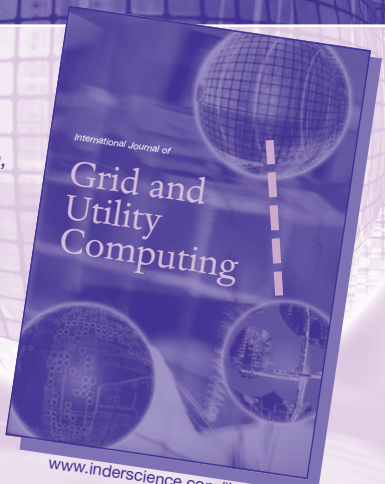
IJGUC addresses grid and utility computing which represent fundamental paradigms for next-generation parallel and distributed computing systems, enabling distant collaboration, resource discovery/sharing, data-intensive applicative infrastructures and high-throughput environments to address on-demand large-scale scientific, engineering, and business problems. Grid and utility computing have significantly contributed to the advancement of cloud computing, e-science, high performance computing, virtual organisations and collaboration, scientific workflows, and service-oriented architectures. They exploit synergies with different areas such as peer-to-peer computing, semantic web, wireless/mobile technologies, and computational intelligence.



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Topics covered include:

- Grid, utility, cloud computing and applications
- Resource allocation, scheduling, service discovery, capacity management
- Middleware, monitoring, load balancing, workload management
- Performance evaluation, simulation/modelling, toolkits
- Security, trust, maintenance, socio-technical/management issues
- Fault tolerance, reliability, availability
- Knowledge, service-oriented, semantic grids and clouds
- Integrated grid, cloud, P2P, mobile/wireless architectures
- Green computing/IT, power-aware models/environments
- Grid economics, market economy, business oriented models
- Virtual organisations, collaborative computing
- Virtualization of hardware/software resources
- Utility models, solution architectures
- Resource modelling/simulation in utility computing
- Utility computing economics, pricing models automation

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