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## The First International Conference on Advanced Communications and Computation

**INFOCOMP 2011**

**October 23-28, 2011 - Barcelona, Spain**

<http://www.aria.org/conferences2011/INFOCOMP11.html>

### Important deadlines:

Submission (full paper)	May 20, 2011
Notification	June 25, 2011
Registration	July 10, 2011
Camera ready	July 15, 2011

### Tracks:

#### Large scale and fast computation

Developments in information and computing systems; Grid computing; Cloud computing; Pervasive/ubiquitous computing; Services computing and Opportunistic computing; High Performance Computing (HPC); Fast data processing; Real-time processing; Fast switching and routing protocols; Parallelization of algorithms and applications; Energy-efficient High Performance Computing; Large scale data visualization; Tools for parallelization; Programming languages and parallel algorithms; Highly performance codes; MPI, OpenMP; Optimization; Innovative architectures

#### Networks/systems communications

Cross-layer design and optimization; Cyber-physical systems and networks; Data centers, virtualization, and cloud networks; Delay/disruption tolerant networks; Future Internet broadband services; Fast networks / InfiniBand architectures for future interactive multicore applications; ; Sensor networks and embedded systems; Ad hoc mobile networks; Access technologies; P2P networks; Optical networks; Cellular and broadband wireless networks; Mobility models and mobile networks; Multicast, broadcast and anycast; Multimedia protocols and networking; Software defined radio and cognitive radio networking; Content-based network service; Certification, public key infrastructures, data integrity; Privacy and anonymity

#### Networks/systems measurement, control and management

Networks/systems measurement, simulation and emulation; Network-, system-, and application-management; Congestion control and capacity planning; Dynamic spectrum management; Addressing and location management; Quality of Service (QoS) and Quality of Experience (QoE); Quality of Data (QoD) and Quality of Context (QoC); e-Commerce, accounting, pricing and billing; Use of distributed compute and storage resources; Energy-aware mechanisms for control and management; Configuration, reuse of software components; Resource allocation and management; Denial of service mitigation and prevention; System and data security; Communication visualization

#### Advanced applications

Simulation and modelling (scientific applications, engineering, industry); Computer science and geoinformatics; e-Energy, geosciences, prospection, exploration, oil and gas; Mobility and logistic services; Geoscientific Information Systems (GIS); Remote sensing and satellite imaging; Cartography, hydrology; Climatology and environmental sciences; Molecular dynamics simulation; Genetic algorithms; Physics and chemistry applications; Medicine, genetics, epidemiology, medical geology; Multi-dimensional data visualization; Search engines and scientific discovery; Online social networking; Vehicular, underground and underwater networks and applications; Scientific data processing; Computation frameworks and tools (Mathematica, SAGE, Maple, Matlab, Gromacs, ANSYS, Fluent, etc.); Database applications; Information and database systems; Education, e-Learning, and e-Science; ICT business evaluation and management; Legal informatics, Open Access, Science / Copyright

#### Evaluation context

Energy-aware and energy-efficient networks; Implementation and experimental testbeds; Traffic measurement and traffic patterns; Characterization of topology dynamics; Web services and performance; Performance measurement and benchmarking; Energy-aware and energy-efficient High Performance Computing; Standards and benchmarks