



--- Call for Papers ---

## 2<sup>nd</sup> International Symposium on Middleware and Network Applications (MNA 2011)

[mna2011.middleware-tech.net](http://mna2011.middleware-tech.net)

Part of ITNG 2011 ([www.itng.info](http://www.itng.info))

April 11-13, 2011, Las Vegas, Nevada, USA

Proceedings to be published by the IEEE Computer Society's Conference Publishing Services-CPS

Authors of selected presented papers will be invited to submit extended versions of their papers to a special issue of  
Wiley Concurrency and Computation: Practice and Experience

With the recent advances in network technologies, there has been a growing interest in new network applications such as cloud applications, ubiquitous applications, and sensor applications. The development of these applications is usually not trivial and faces a number of challenges. These challenges are relaxed with the existence of enabling techniques such as advanced middleware services. Middleware technologies had evolved tremendously over the past decade from simple support techniques for applications integration to a field of its own. The latest advances and innovations in middleware research, design and utilization highlighted great expansion of the middleware field. This symposium is designed to combine the network applications and middleware development communities to discuss and highlight the latest advancements in both network applications and enabling middleware technologies. Original work and contributions in network applications and middleware concepts, design, implementation, deployment, and evaluation are sought, including, but not limited to the following:

### Middleware Issues

- Social-aware middleware
- Power-aware middleware
- Security middleware
- Event-based, publish/subscribe, and message-oriented middleware
- Reconfigurable, adaptable, and reflective middleware approaches
- Middleware solutions for fault tolerance and quality-of-service
- Scalability of middleware
- Context-aware middleware
- Autonomic and self-managing middleware
- Evaluation techniques for middleware solutions
- Methods/tools for designing, verifying, & evaluating middleware
- Software engineering techniques for middleware
- Service oriented middleware
- Agent-based middleware

### Domain-Specific Middleware

- Middleware for web services
- RFID and sensor networks middleware
- Nano-middleware
- Middleware for cluster, grid, and cloud computing
- Middleware for ubiquitous and mobile computing
- Middleware solutions for large scale distributed databases
- Middleware for robotics
- Middleware for WiMax and mesh networks
- Smart spaces middleware
- Middleware for personal area network
- Application servers
- Vehicular systems middleware

### Paper Submission

Papers must represent high quality and previously unpublished work, not currently under review by another conference, workshop, or journal. Your submission should include the author names, complete mailing addresses, telephone and fax numbers, and the email addresses of the authors. Interested authors should submit a maximum of **6 pages** of their original and unpublished work including 5 keywords.

### Important Dates

Submission: October 15, 2010 **extended to October 30, 2010**  
Author Notification: November 26, 2010  
Advance Registration: January 12, 2011  
Camera Ready: February 4, 2011

### Network Applications

- Body and Personal Area Network Applications
- Cloud applications
- Emergency responses networked systems
- Ubiquitous and pervasive applications
- Collaborative applications
- RFID and sensor network applications
- Ultra-wideband applications
- Mobile applications
- Smart home applications
- Infrastructure monitoring and control applications
- Remote health monitoring
- GPS and location-based applications
- Networked vehicles applications
- Alert applications

### Network Applications Issues

- Application specific protocols
- Network applications management
- Network-based automation
- Critical infrastructure networks
- Fault-tolerance for network applications
- Real-time issues for network applications
- Industrial networks
- Network support for multi-player gaming
- Highly available networks
- Networks for grid and cluster computing
- Software engineering for network applications
- Social networks

For more information contact the symposium chairs

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