Call for Papers

First International Workshop on Middleware for Large Scale Distributed Systems (MiDiS-2010)

November 4th – 6th 2010, Fukuoka Institute of Technology, Fukuoka, Japan

http://midis.ncit.pub.ro/

To be held in conjunction with:

Fifth International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC-2010)

http://www.lsi.upc.edu/~net4all/3PGCIC-2010/

Fukuoka Institute of Technology (FIT), Fukuoka, Japan

Scope

The first edition of the First International Workshop on the Middleware of Large Scale Distributed Systems, MiDiS-2010 is dedicated to the dissemination and evaluation of original contributions to the architectures, methods, techniques, protocols, components, services and tools related to the Middleware of Large Scale Distributed Systems (LSDS) with special emphasis on large P2P, Cloud, Grid, and Web-based systems.

Middleware solutions for LSDS aim to respond to high requirements of large scale distributed applications related to performance, flexibility, extensibility, portability, availability, reliability, safety, security, trust, and scalability, in the context of high number of users, and large geographic distribution of heterogeneous hardware and software resources. The solutions used in the design, implementation, and deployment of systems with such capabilities are based on monitoring, scheduling, optimization, sharing, balancing, discovery, and synchronization methods and techniques that are continuously improved. New services and functionality are added to the middleware to ease the development of new and highly demanding applications with low cost and high performance. New architectures and policies are designed to incorporate solutions for the management of data, resources, tasks, and applications, ensure fault tolerance, accounting, service on demand, and other functions required by user communities to operate effectively a shared services environment. All these topics challenge today researchers, due to the strong dynamic behavior of the user communities and of resource collections they use.

The purpose of the workshop is to provide an open forum for researchers from academia and industry to present, discuss, and exchange ideas, results, and expertise in the area of middleware solution for large scale distributed systems. The workshop also aims at stimulating synergies between Grid, P2P, Cloud, and Web-based developer communities.

Topics of interest

The focus of this workshop is on new architectures, methods, techniques, protocols, components, services and tools related to the Middleware of Large Scale Distributed Systems (LSDS). These may include, but are not limited to the following topics:

- Architectural solutions for Large Scale Distributed Systems (Grid, Cloud, P2P, Web-based)
- Models and techniques for data intensive computing
- Protocols for High performance communication in LSDS
- Monitoring and Control
- Distributed resource management in Middleware for LSDS
- Scheduling and meta-scheduling
- Mapping, scheduling and synchronization
- Workflow management
- Distributed load balancing

- Management of high data volumes
- Data storage and retrieval
- Data summarization and aggregation
- Fault-tolerance and replication
- Optimization techniques for distributed systems
- Performance evaluation and prediction
- Self-organized distributed systems
- Confidentiality, integrity, trust, anonymity in LSDS
- Intrusion detection and prevention, spam detection
- LSDS development tools
- LSDS environments and platforms

Important Dates:

Submission Deadline:	**May 30, 2010**
Authors Notification:	June 31, 2010
Author Registration:	July 30, 2010
Final Manuscript:	September 5, 2010
Conference Dates:	November 4-6, 2010

Submission Guidelines

Authors are invited to submit research and application papers not more than six pages (IEEE Conference proceedings manuscripts: two column, ingle-spaced), including figures and references, using 10 font size, and number each page. You can find instructions for authors, at the following web page: http://www.computer.org/portal/site/cscps/

Prepare your paper in PDF file and submit it electronically to the 3PGCIC-2010 online submission system at: http://www.lsi.upc.edu/~net4all/3PGCIC2010/

All papers will be peer reviewed by at least two or more independent referees of the program committee of MiDiS-2010 Workshop and accepted on the basis of their scientific merit, originality, technical soundness, clarity of exposition, and relevance to the Workshop topics.

Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance. Accepted papers will be published by the IEEE Conference Publishing Services (CPS) and archived in the Digital Library.

MiDiS-2010 Workshop Chairs

Valentin Cristea
Faculty of Automatic Control and Computer Science, University Politehnica of Bucharest, Romania
valentin.cristea at cs.pub.ro
Fatos Xhafa
Technical University of Catalonia, Spain
fatos at lsi.upc.edu

Program Committee Members:

TBA