MIDAS 2006 Workshop

1st IEEE International Workshop on MIDdleware for mobile
Ad hoc and Sensor networks
co-located with WoWMoM 2006

June 26th, 2006, Niagara-Falls, Buffalo, USA
http://www.cs.ucl.ac.uk/research/mobile/midas06/

Call For Papers

Submission date: 10 January 2006
Camera Ready date: 17 March 2006
Notification date: 22 February 2006
Workshop date: 26th June 2006

- SCOPE -

Ad-hoc networks and networked sensor systems are complex and challenging environments in which to develop software. This is primarily due to their complexity in terms of factors such as: limited resource availability (including power); heterogeneity at the level of devices and network types; heterogeneity at the level of system software; the need to manage trust and privacy; the need to manage failure and provide dependability; and the need for large scale and highly dynamic deployments. Middleware technologies have the potential to ease and accelerate software development in these environments by offering simplified application- level views that abstract over factors such as the above. However, middleware technologies are relatively undeveloped and untried in ad-hoc and sensor environments. The aim of this workshop, therefore, is to consider how these environments can benefit from the middleware concept. In particular, it will investigate how middleware architectures might evolve in response to the constraints imposed by these environments, and identify new challenges and approaches for ad-hoc and sensor middleware researchers. The workshop is intended as a forum for the discussion of research which is insufficiently mature for conference publication (e.g., not fully implemented or evaluated) but which is nevertheless exciting, innovative and promising. The intended workshop audience includes practitioners and researchers in middleware systems, mobile systems and sensor network systems.

- TOPICS -

- Middleware programming techniques and abstractions
- Middleware algorithms for dynamic reconfiguration and adaptation
- Energy-aware middleware mechanisms
- Cross layering and resource awareness
- Security
- Fault tolerance and reliability
- Heterogeneity

- Aggregation techniques and data management
- Overlay and topology management
- Context acquisition and dissemination
- Testing and simulation platforms for middleware
- Resource discovery and management
- Virtual machines and operating systems
- Experience/application of middleware for ad hoc and sensor networks

- SUBMISSION GUIDELINES -

Submitted papers must be unpublished and not under consideration elsewhere for publication. Only electronic submissions (PS or PDF) will be considered. Papers must be submitted via our online submission system. Papers must be formatted according to the IEEE double-column standard format as indicated at: http://www.cs.ucl.ac.uk/research/mobile/midas06/submission.html . The maximum length of the manuscript is five pages. This limit includes figures, appendix, bibliography, etc. Papers that will significantly exceed this limit will be automatically rejected. The final version of the papers will be published in the IEEE Proceedings.

- WORKSHOP ORGANIZERS -

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- WORKSHOP COMMITTEE -

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