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1st Middleware Doctoral Symposium

Organizers:

Edward Curry
National University of Ireland (Ireland)

Doug Lea
SUNY Oswego (USA)

Message from the Advanced Workshops Chair

The Middleware Advanced Workshops program started in 2000 with the 1st Workshop on Reflective Middleware in New York. The surprising success of this first workshop, both in number of submission and number of participants, motivated the continuation of the Workshop program in the following events of the Middleware series. In Heidelberg, Middleware'2001 hosted two well attended workshops on Mobile Computing and Electronic Commerce, always focusing on research within the middleware area. In Rio, Middleware'2003 expanded the program with an open Call for Workshops that resulted in four high-quality workshops: Mobile and Ad-Hoc Computing, Reflective and Adaptive Middleware, Grid Computing, and Model-Driven Approaches.

The preparation for the 2004 edition of the Middleware workshops started in late 2003 with the Call for Workshop Proposals. We received seven good, well planned proposals and, with the help of experts in the Middleware field, four workshops were selected. The selection criteria was based on adherence to the conference theme and objectives, capacity of attracting a good number of researchers and practitioners, whether the proposal was backed by well-known, active researchers in the field, and the overall formal quality of the proposal.

For the first time, we will host a Doctoral Symposium, equivalent to similar events in other conferences such as OOPSLA. It is organized by Edward Curry from the National University of Ireland and Doug Lea from SUNY Oswego. During the Doctoral Symposium, 8 PhD candidates will present their theses work to a first-class Mentor Committee composed of some of the top Middleware researchers in the world. The goal of the symposium is to expose the students to helpful criticism before their thesis defense. Students beginning their research are also encouraged to attend the workshop as observers to better understand how to structure a research project and learn from the experience of others. The first edition of the Symposium will be highly international with the participation of PhD candidates from Brazil, Germany, Netherlands, Spain, Switzerland, and the United Kingdom.

The Workshop on Middleware for Grid Computing was very successful in Rio and now, organized by Bruno Schulze (LNCC, Brazil) and Radha Nandkumar (NCSA/UIUC, USA), is in its second edition. It received 48 paper submissions from which 15 papers were selected. This workshop will also host a specific poster session with 9 posters.

The Workshop on Middleware for Pervasive and Ad-Hoc Computing also started well in Rio and this year, organized by Paddy Nixon from Strathclyde University (UK) grew both in quantity and quality attracting papers from the lead researchers in the international community.

Last but not least, the Workshop on Adaptive and Reflective Middleware continues very healthy. In its third edition it continues to be a venue for researchers working on the middleware core, finding new ways of structuring it to make it more flexible, adaptable, and efficient. This year, it is being organized by Fábio Costa (UFG, Brazil) and Nanbor Wang (Tech-X Corp., USA).

I would like to thank the great help provided by Hans-Arno Jacobsen in the overall conference organization, Raphael Y. Camargo in editing the Middleware Companion and preparing the material for publication in the ACM Digital Library, and Eyal de Lara for organizing the Posters Session. Besides Arno, Peter Honeyman and Joe Sventek helped us to review the initial proposals and were extremely valuable. Finally, I thank all workshop organizers for keeping in sync and doing their work so well.

I sincerely hope that all workshop participants have a lot of fun during these two days and that the papers in the Workshop Proceedings – also available in the ACM Digital Library – be very valuable for the middleware community.

Fabio Kon,
São Paulo, October, 2004.

The 1st International Middleware Doctoral Symposium

Middleware 2004, Toronto, Canada

Symposium Goal

The inaugural International Middleware Doctoral Symposium is a forum for an invited group of doctoral students to present their work and obtain guidance from mentors as well as to provide contact with other students at a similar stage in their careers. Mentors at the symposium are senior university or industry researchers, e.g., current or former members of the Middleware program committee. The goal of the symposium is to expose students to helpful criticism before their thesis defense, and to foster discussions related to future career perspectives. Mentors provide constructive criticism on the current work, and give advice for possible future direction and focus. A similar series of doctoral symposia is held in connection with the OOPSLA and ECOOP conferences.

The symposium consists of a full-day workshop followed by an informal dinner. Participants will also present a poster at the conference poster session, providing further opportunity for additional feedback and experience in communicating with other researchers. Students at the beginning of their research, who are interested in learning about structuring research and obtaining research direction, are welcome to attend the symposium as observers.

We would like to give a special thanks to all the mentors for their time and effort attending the symposium and providing constructive reviews.

Edward Curry
National University of Ireland, Galway, Ireland

Doug Lea
SUNY Oswego, USA

Doctoral Candidates

The symposium attracted a large number of high quality submissions ensuring a competitive selection process. The following 8 doctoral candidates were selected to present their work at the symposium:

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- Patricia Kayser Vargas - Application Partitioning and Hierarchical Management in Grid Environments: status and feedback
- Etienne Schneider - Dynamic Reconfiguration through OSA+1, a Real-Time Middleware

Mentor Committee

- Gul Agha, University of Illinois, Urbana Champaign, USA
- Geoff Coulson, Lancaster University, UK
- Doug Lea, SUNY Oswego, USA
- Klara Nahrstedt, University of Illinois, Urbana Champaign, USA
- Rick Schantz, BBN Technologies, USA
- Stefan Tai, IBM T.J. Watson, USA
- Nalini Venkatasubramanian, University of California, Irvine, USA
- Werner Vogels, Cornell University, USA

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