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# Utility Computing

15th IFIP/IEEE International Workshop  
on Distributed Systems: Operations and Management, DSOM 2004  
Davis, CA, USA, November 15-17, 2004  
Proceedings



Springer

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# Preface

This volume of the Lecture Notes in Computer Science series contains all the papers accepted for presentation at the 13th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2004), which was held at the University of California, Davis during November 15–17, 2004.

DSOM 2004 was the fifteenth workshop in a series of annual workshops and it followed in the footsteps of highly successful previous meetings, the most recent of which were held in Heidelberg, Germany (DSOM 2003), Montreal, Canada (DSOM 2002), Nancy, France (DSOM 2001), and Austin, USA (DSOM 2000). The goal of the DSOM workshops is to bring together researchers in the areas of networks, systems, and services management, from both industry and academia, to discuss recent advances and foster future growth in this field. In contrast to the larger management symposia, such as IM (Integrated Management) and NOMS (Network Operations and Management Symposium), the DSOM workshops are organized as single-track programs in order to stimulate interaction among participants.

The focus of DSOM 2004 was “Management Issues in Utility Computing.” Increasingly there is a trend now towards managing large infrastructures and services within utility models where resources can be obtained on demand. Such a trend is being driven by the desire to consolidate infrastructures within enterprises and across enterprises using third-party infrastructure providers and networked infrastructures like Grid and PlanetLab. The intent in these initiatives is to create systems that provide automated provisioning, configuration, and lifecycle management of a wide variety of infrastructure resources and services, on demand. The papers presented at the workshop address the underlying technologies that are key to the success of the utility computing paradigm.

This year we received about 110 high-quality papers of which 21 long papers were selected for the 7 long paper sessions and 4 short papers were selected for the short paper session. The technical sessions covered the topics “Management Architectures,” “SLA and Business Objective Driven Management,” “Policy-Based Management,” “Automated Management,” “Analysis and Reasoning in Management,” “Trust and Security,” and “Implementation, Instrumentation, Experience.”

This workshop owed its success to all the members of the technical program committee, who did an excellent job of encouraging their colleagues in the field to submit a total of 110 high-quality papers, and who devoted a lot of their time to help create an outstanding technical program. We thank them profusely. We would like to thank Hewlett-Packard and HP Laboratories, the DSOM 2004 Corporate Patron.

September 2004

Akhil Sahai,  
Felix Wu

# DSOM 2004

November 15–17, 2004, Davis, California, USA

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