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# Active Technologies for Network and Service Management

10th IFIP/IEEE International Workshop  
on Distributed Systems:  
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# Preface

This volume of the Lecture Notes in Computer Science series contains all papers accepted for presentation at the 10th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM'99), which took place at the ETH Zürich in Switzerland and was hosted by the Computer Engineering and Networking Laboratory, TIK.

DSOM'99 is the tenth workshop in a series of annual workshops, and Zürich is proud to host this 10th anniversary of the IEEE/IFIP workshop. DSOM'99 follows highly successful meetings, the most recent of which took place in Delaware, U.S.A. (DSOM'98), Sydney, Australia (DSOM'97), and L'Aquila, Italy (DSOM'96). DSOM workshops attempt to bring together researchers from the area of network and service management in both industry and academia to discuss recent advancements and to foster further growth in this field. In contrast to the larger management symposia IM (Integrated Network Management) and NOMS (Network Operations and Management Symposium), DSOM workshops follow a single-track program, in order to stimulate interaction and active participation.

The specific focus of DSOM'99 is "Active Technologies for Network and Service Management," reflecting the current developments in the field of active and programmable networks, and about half of the papers in this workshop fall within this category. Other papers report on advances in SNMP-based management, distributed monitoring, multi-domain management, enterprise management, and management tools. All technical sessions contain 20 papers, which have been selected out of more than 50 submissions via a thorough refereeing process. Showing a truly international scope, the final program includes 10 European, 8 North and South American, and 2 Asian papers, almost half of which evolved from industry. To round up the technical program, panels have been added. They focus on "Providing Managed Services to End-Users," "Are Programmable Networks Unmanageable?" and "Challenges for Management Research."

DSOM'99 has been supported by a number of different organizations and persons. Therefore, we would like to acknowledge the support of our DSOM'99 sponsors. Following the tradition established during the last nine years, the IEEE Communications Society and the IFIP WG 6.6 were technical co-sponsors of this workshop. Especially we would like to thank our DSOM'99 patrons: Ascom, BT, GTE, IBM, the IEEE Swiss Chapter on Broadband Communications, Lucent Technologies, and Swisscom for their contributions. With their support, these companies and organizations demonstrate their interest in the forum that DSOM provides and the results it disseminates.

This workshop owes its success to all members of the technical program committee, who devoted their expertise and much of their time to provide this year's DSOM with an outstanding technical program. Furthermore, we would like to express many thanks to

Marcus Brunner, who performed a great job in maintaining the DSOM'99 Web server and managing the system for paper submission and review. In addition, Marcus assisted us unceasingly during all phases of the DSOM'99 preparation with technical and administrative help. Thanks go also to Annette Schicker, who ran the DSOM'99 registration and on-site offices and provided our DSOM'99 participants a first-rate service. Finally, we would like to thank the ETH Zürich as well as the TIK for hosting the DSOM'99 workshop in this convenient and stimulating environment.

August 1999

Rolf Stadler  
Burkhard Stiller

DSOM'99



Zürich, Switzerland

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IEEE, Institute of Electrical and Electronics Engineers  
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