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Middleware 2012

ACM/IFIP/USENIX

13th International Middleware Conference
Montreal, QC, Canada, December 3-7, 2012
Proceedings



Springer

Volume Editors

Priya Narasimhan
Carnegie Mellon University
Electrical and Computer Engineering Department
4720 Forbes Avenue
Pittsburgh, PA 15213, USA
E-mail: priya@cs.cmu.edu

Peter Triantafillou
University of Patras
Department of Computer Engineering and Informatics
University Campus
26504 Rio, Greece
E-mail: peter@ceid.upatras.gr

ISSN 0302-9743 e-ISSN 1611-3349
ISBN 978-3-642-35169-3 e-ISBN 978-3-642-35170-9
DOI 10.1007/978-3-642-35170-9
Springer Heidelberg Dordrecht London New York

Library of Congress Control Number: 2012952143

CR Subject Classification (1998): C.2, H.4, D.2, H.3, K.6.5, D.4.6

LNCS Sublibrary: SL 2 – Programming and Software Engineering

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Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Preface

This edition marks the 13th ACM/IFIP/USENIX Middleware Conference. The first conference was held in the Lake District of England in 1998, and its origins reflected the growing importance of middleware and the realization that middleware represented an active, rigorous, growing and evolving research discipline in its own right. The definition of the term “middleware” has also evolved in the past decade, but retains, at its core, the notion of different levels/layers of abstractions in distributed-computing systems. Since its inception, the *Middleware Conference* has remained a premier forum for the discussion of innovations and recent advances in the design, implementation, experimentation, deployment, and usage of middleware systems.

The 2012 Middleware Conference included a variety of papers spanning the design, implementation, deployment, and evaluation of middleware for next-generation platforms such as cloud computing, mobile services, peer-to-peer systems, pub/sub middleware, Internet of Things, etc., along with middleware support to enable attributes such as availability, scalability, diagnosis, security, privacy, etc.

The Research Track of the conference this year reflected a very strong technical program, with 24 papers accepted out of 125 submissions. The Industrial Track of the conference accepted 6 papers out of 22 additional submissions. The papers were judged based on originality, contribution, presentation quality, relevance to the conference, and potential impact on the field. This year, two innovations were introduced. First, the reviewing process included an author-feedback phase; this proved to be successful in bringing the authors and the Program Committee members closer and helped to increase fairness, reducing chance variability and improving the quality of the program. Second, a new paper submission category, namely that of Systems and Experiences, was introduced with great success; there were more than 20 submissions to this category and 4 of them were selected for inclusion into the program.

The program also included workshops on topics such as adaptive/reflective middleware, embedded middleware, multi-device middleware, and middleware for cloud management and Internet computing. Other important pillars of the conference were a poster and a demo session, as well as tutorials. To highlight and mentor the next-generation of middleware researchers, the conference program also included a doctoral symposium.

It is our privilege to have had the opportunity to serve as the Program Chairs of the 2012 Middleware Conference and we would like to thank everyone who made the conference so successful. The Organizing Committee, particularly General Chair Bettina Kemme, provided continuous support, guidance, and leadership. The Program Committee did a thorough and timely job of evaluating submissions. The Steering Committee provided advice, insights from previous

conferences, as well as a sense of continuity. Last but not least, we would like to thank the authors – the outstanding quality of the papers is a testament to the dedication and the efforts of our authors to this field and their lasting, impactful research contributions to the 2012 ACM/IFIP/USENIX Middleware Conference.

December 2012

Priya Narasimhan
Peter Triantafillou

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Middleware 2012 was organized under the joint sponsorship of the Association for Computing Machinery (ACM), the International Federation for Information Processing (IFIP), and USENIX.

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