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Scalability of Networks and Services

Third International Conference on Autonomous
Infrastructure, Management and Security, AIMS 2009
Enschede, The Netherlands, June 30–July 2, 2009
Proceedings

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Library of Congress Control Number: 2009929558

CR Subject Classification (1998): C.2, D.4.4, H.3, H.4

LNCS Sublibrary: SL 5 – Computer Communication Networks
and Telecommunications

ISSN 0302-9743

ISBN-10 3-642-02626-5 Springer Berlin Heidelberg New York

ISBN-13 978-3-642-02626-3 Springer Berlin Heidelberg New York

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Printed in Germany

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

Printed on acid-free paper SPIN: 12707539 06/3180 5 4 3 2 1 0

Preface

This volume of the *Lecture Notes in Computer Science* series contains the papers accepted for presentation at the Third International Conference on Autonomous Infrastructure, Management and Security (AIMS 2009). The conference took place in Enschede, The Netherlands, hosted by the University of Twente. AIMS 2009 was organized and supported by the EC IST-EMANICS Network of Excellence (#26854) and co-sponsored by IFIP WG 6.6 and the Strategic Research Orientation of the University of Twente on Dependable Systems and Networks (DSN).

AIMS 2009 constituted the Third edition of a single-track and standalone conference on management and security aspects of distributed and autonomous systems, which took place initially in Oslo, Norway in June 2007, followed by AIMS 2008 in Bremen, Germany.

The theme of the AIMS 2009 conference was “Scalability of Networks and Services,” focusing on how scalable networked systems can be monitored, managed, and protected in an efficient and autonomous way. The research papers that have been selected for publication in the present proceedings have approached this theme from different perspectives, covering topics such as network resource management, overlays and peer-to-peer networks, network configuration and optimization, and monitoring and visualization.

This diversity has helped AIMS 2009 once again to reach its main objective: to be a cross-disciplinary conference where researchers can exchange their results with sufficient time for discussion of novel ideas. For the main conference program, we received a total number of 28 paper submissions. The submissions came, according to the affiliation of the first author, from 14 different countries. Seven papers came from non-European countries, the same number were submitted from non-academic organizations.

The second objective of the AIMS conference series is to provide a venue for doctoral students to present and discuss their research ideas in a wider audience. In this way, students obtain feedback about their results achieved so far, as well as about their future research plans. This idea has been implemented in the form of a PhD workshop. In total, the workshop received 15 PhD paper submissions in which PhD students gave a description of their research problem and the chosen approach, and outlined the results achieved. In addition to the main conference program and the PhD workshop, AIMS 2009 also included a tutorial program (not part of the proceedings).

All submitted conference and PhD workshop papers were reviewed by three members of the Technical Program Committee (TPC) (and additional reviewers) and the PhD Workshop Committee, respectively. Based on the reviews, and discussions with the TPC members if needed, the Program Chairs identified 12 conference papers for publication and presentation at the AIMS conference. In addition, three short papers were selected for presentation. For the PhD workshop, the Workshop Chairs selected eight papers to be included in the proceedings and to be presented at the conference.

We would like to thank the many people who helped make AIMS 2009 such a high-quality and successful event. Our thanks first go to the PhD Workshop Chairs David Hausheer and George Pavlou and to the Tutorial and Keynote Chairs Emil Lupu and Iris Hochstatter for all their efforts in constructing the technical program. In addition, we like to acknowledge the great review work performed by the members of the committees and the additional reviewers. Another special thanks goes to all authors who submitted their contributions to AIMS 2009. Finally, we would like to thank Springer, namely Alfred Hofmann and Anna Kramer, for the smooth cooperation in finalizing these proceedings. Last but not least, special thanks go to Tiago Fioreze, Silvia Meijran, Giovane Moura, and Anna Sperotto for the local organization and to the University of Twente for hosting the AIMS 2009 conference.

April 2009

Ramin Sadre
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