

SEEFM07

3rd SOUTH-EAST EUROPEAN WORKSHOP
ON FORMAL METHODS

Edited by

Dimitris Dranidis
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3rd SOUTH-EAST EUROPEAN WORKSHOP
ON FORMAL METHODS

30th November 2007-1st December 2007
Thessaloniki, Greece

Workshop organised by

SOUTH-EAST EUROPEAN RESEARCH CENTRE
(SEERC)

&

CITY COLLEGE, Thessaloniki

ISBN 978-960-89629-4-1
Copyright: November 2007

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Foreword

The increasing complexity of modern computer systems demands rigorous techniques to support development. Formal methods aim to answer this need, by providing a collection of techniques based on mathematics, that support consistency checking of specifications, mathematical modelling and formal verification of systems. The area attracts a constantly increasing research interest from both industry and academia.

The present volume contains papers presented in the 3rd South East European workshop on Formal Methods. The aim of the third in the series workshop was to continue the success of the previous two workshops, SEEFM05 (Orhid) and SEEFM03 (Thessaloniki), in engaging more researchers of the Formal Methods community not only from South-East Europe but also from the rest of the world. The main theme of the workshop was twofold and dealt with Service-Oriented Computing, and Teaching Formal Methods, but presentations from other related areas were included as well.

SEEFM07 was jointly organised by SEERC and CITY College and held in Thessaloniki, between the 30th November and 1st December 2007. It was sponsored by BCS-FACS group, Service Oriented Software Research Network (SOSoRNET) and MACEDONIA newspaper (communication sponsor) and was a satellite event of the Informatics Education Europe II Conference.

The workshop has attracted participation from scientists, academics and researchers from Institutes and Universities all over Europe. More specifically, out of the 17 full papers accepted for presentation 4 of them were from Greece, 2 from Germany, 4 from UK, 2 from Finland, 1 from Italy, 1 from Italy and Portugal, 1 from Czech Republic, 1 from Romania and 1 from France.

The SEEFM07 workshop was honored to host two invited talks by two distinguished keynote speakers:

- "Supporting the Composition of Distributed Business Processes", by *Prof. Marco Pistore*, from the Institute for Scientific and Technological Research (IRST) of the Fondazione Bruno Kessler (FBK), Trento - Italy
- "SENSORIA: Engineering for Service-Oriented Overlay Computers", by *Prof. Martin Wirsing*, from the Institut für Informatik, Ludwig-Maximilians-Universität München

Closing, we would like to thank all program committee members, reviewers, authors, participants and people in SEERC and City College that actively contributed to successfully organise SEEFM07. Special thanks to Sanja Zakovska for the design of the workshop poster and proceedings cover.

Dr. Dimitris Dranidis

Chair of SEEFM07

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Acknowledgments

This book is the final product of the 3rd South East European Workshop on Formal Methods (SEEFM07) with a twofold theme: "(a) "Service-Oriented Computing and Formal Methods" and (b) "Teaching Formal Methods" which took place in Thessaloniki on November 30 – December 1, 2007. It is the result of a collective effort and I would like to take this opportunity to express my appreciation to the people involved. First of all, I would like to thank the Organising and Programme Committees as well all the authors, speakers, reviewers and participants whose contributions to the workshop made it a success.

The event contributes directly to the mission of the South East European Research Centre (SEERC), which is to support the development of South East Europe by conducting pure and applied research in and for the region. To accomplish this, SEERC employs the research capacities of the University of Sheffield and CITY Liberal Studies, facilitating collaborations between their research staff and developing networks of researchers from across South-East Europe.

I am most grateful to the Vice Chancellor of the University of Sheffield, Professor Keith Burnett and the Pro-Vice Chancellor Professor Tony Crook as well as to Mr. Yiannis Verwerdis, Principal of CITY Liberal Studies, for supporting the development of academic research expertise and for investing in research efforts that have a direct impact on policy recommendations for the countries of the South East European region.

I would also like to express my appreciation to the Programme Chair, Dr. Dimitris Dranidis and the Local Organising Committee Chair Dr. Ilias Sakellariou, both from CITY Liberal Studies as well as to the two invited speakers, Professors Marco Pistore and Martin Wirsing.

I would like to thank all colleagues from the Computer Science Department of City Liberal Studies and SEERC for devoting a lot of valuable personal time to the organization of this event and making this workshop the third successful event in the series.

Finally, I would like to warmly thank our sponsors, BCS-FACS, SOSoRNET and the Macedonia Newspaper (communication sponsor). Without their support this event would not be possible.

Nikos Zaharis

SEERC Director

