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Editors:
Rahma Ben Ayed
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Abstract

The aim of the workshop is to bring together researchers and practitioners, in the areas of verification, control, performance, Quality of Service and dependability evaluation and assessment, to discuss the state of the art for solving the challenges facing us today in various modern computer and communication systems in which functional and non functional properties are strongly mixed.

Thus, the main motivation for VECoS is to encourage the cross-fertilisation between verification and evaluation approaches, methods and techniques especially those based on the specification formalisms for concurrent systems (i.e. process algebras, transition systems, automata networks, Petri nets, rewrite logic... etc).

This conference is sponsored by:
Full Synopsis

The International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS) continues its mission as one of the leading forum for the presentation of all aspects of verification, performance modelling and analysis of computer and communication systems. The first edition was held in Algiers, Algeria (2007). This year's edition is held in Leeds, United Kingdom.

VECoS offers a unique forum for researchers and practitioners from academia to share their expertise results and achievements in all areas of verification and performance evaluation of computer and communication systems including analytic modelling, simulation and measurements.

This year's programme consists of six regular paper sessions and four invited talks. Various topics are covered in the programme and include Petri nets, model checking, and wireless sensor networks.

These proceedings record the contributions from the invited speakers and from the technical sessions. We present four invited papers, nineteen technical papers, selected out of submissions from sixteen laboratories.

We have been delighted by the overwhelming response from the international community of computer and communication systems to our call for papers. The workshop attracted a large number of high quality papers from many countries. Once again we welcome back our colleagues from Tunisia, Morocco, Algeria, France, Italy, Canada, and the United Kingdom.

The programme committee includes researchers from forty laboratories. Each paper submitted was evaluated by at least three reviewers. After the evaluation, reports were returned to the programme committee for discussion and resolution of conflicts. Based on their recommendations, we implemented a consensus process, and selected the nineteen papers that we present here.

We are grateful to all members of the programme committee, the organising committee and to all referees for their hard work. The support and encouragement of the steering committee were invaluable assets. Without the support of our institutions, VECoS2008 could not have been a reality. Their recognition of the importance of this event is greatly appreciated. Finally, we would like to thank all the authors of the invited and submitted papers, and all participants at the Workshop. They are the main focus of VECoS.

We would also like to thank the School of Computing at the University of Leeds for hosting the event.

Rahma Ben Ayed and Karim Djemame

VECoS'2008 Co-Chairs

Leeds, July 2008
Editors

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Local Arrangements

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Papers:

Session 1: Verification Methods

Djamel Eddine Saidaouni, Nabil Belala and Messaouda Bouneb: Aggregation of transitions in marking graph generation based on maximality semantics for Petri nets
http://dx.doi.org/10.14236/ewic/VECOS2008.1

Sa'ed Abed, Otmane Ait Mohamed and Ghiath Al Sammane: Multiway Decision Graphs Reduction Approach based on the HOL Theorem Prover
http://dx.doi.org/10.14236/ewic/VECOS2008.2

Jean-Michel Couvreur and Duy-Tung Nguyen: Tree Data Decision Diagrams
http://dx.doi.org/10.14236/ewic/VECOS2008.3

Harry Gros-Desormeaux, Hacene Fouchal and Philippe Hunel: A Comparison of Distributed Test Generation Techniques
http://dx.doi.org/10.14236/ewic/VECOS2008.4

Session 2: Network Optimisation

Abdelfettah Belghith and Wafa Akkari: Power Saving Mechanisms for Ad hoc networks Based on Handshaking Information Tapping
http://dx.doi.org/10.14236/ewic/VECOS2008.5

http://dx.doi.org/10.14236/ewic/VECOS2008.6

http://dx.doi.org/10.14236/ewic/VECOS2008.7

Session 3: Network Evaluation

Ali El Kamel and Habib Youssef: REEQOS: An RSVP-TE approach for the End-to-End QoS provisioning within MPLS Domains
http://dx.doi.org/10.14236/ewic/VECOS2008.8

Anis Ben Arbia and Habib Youssef: Adaptive Clustering Based on Auto - Learning Algorithm
http://dx.doi.org/10.14236/ewic/VECOS2008.9
Session 4: Complex Systems Analysis and Verification

Nicolas Ayache, Loïc Correnson and Franck Védrine  Verifying SystemC with Scenario  
http://dx.doi.org/10.14236/ewic/VECOS2008.10

Gabriella Carrozza, Marcello Cinque, Domenico Cotroneo and Roberto Natella  Operating System Support to Detect Application Hangs  
http://dx.doi.org/10.14236/ewic/VECOS2008.11

Bilel Benhamamouch, Bruno Monsuez and Franck Védrine  Computing WCET using symbolic execution  
http://dx.doi.org/10.14236/ewic/VECOS2008.12

Session 5: Verification/Evaluation of Distributed Systems

Yassine Elghayam, Mohammed Ouzzif and Mohammed Erradi  An LTL Specification and Verification of a Mobile Teleconferencing System  
http://dx.doi.org/10.14236/ewic/VECOS2008.13

Ahmed Hammad and Hassan Mountassir  Heuristics to Verify LTL Properties of Hierarchical Systems  
http://dx.doi.org/10.14236/ewic/VECOS2008.14

Boussad Addad and Said Amari  Response time evaluation in Ethernet-based automation architectures  
http://dx.doi.org/10.14236/ewic/VECOS2008.15

Session 6: Distributed Information Systems Modelling

Shehla Abbas, Mohamed Mosbah and Akka Zemmari  A Probabilistic Model for Distributed Merging of Mobile Agents  
http://dx.doi.org/10.14236/ewic/VECOS2008.16

Siwar Khelifi, Hatem Hadj kacem and Ahmed Hadj Kacem  Specification and verification of the structural and behavioral properties of Publish/Subscribe architectures  
http://dx.doi.org/10.14236/ewic/VECOS2008.17

Lu Liu, Duncan Russell, Nik Looker, David Webster and Jie Xu  Evolutionary Service-Oriented