Fourth International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2010)

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Editors:

Kamel Barkaoui

Bruno Monsuez

Abstract

The International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS) was created by an Euro-Maghrebien network of researchers in computer science. VECoS 2010 is co-organised by the Conservatoire National des Arts et Métiers and École Nationale Supérieure de Techniques Avancées with cooperation of Méthodes Formelles pour les Systèmes Logiciels et Matériels Group, and sponsored by Formal Methods Europe.

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Full Synopsis

The International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS) was created by an Euro-Maghrebian network of researchers in computer science. VECoS 2010 is co-organised by the [Conservatoire National des Arts et Métiers](#) and [École Nationale Supérieure de Techniques Avancées](#) with cooperation of [Méthodes Formelles pour les Systèmes Logiciels et Matériels Group](#), and sponsored by [Formal Methods Europe](#).

The first edition took place in Algiers on 5-6 May 2007 ([VECoS 2007](#)), the second edition in Leeds on 2-3 July 2008 ([VECoS 2008](#)), the third edition in Rabat on 2-3 July 2009 ([VECoS 2009](#)).

The aim of VECoS workshop is to bring together researchers and practitioners in the areas of verification, control, performance, quality of service, 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 extra functional properties are strongly interrelated. Thus, the main motivation for VECoS is to encourage the cross-fertilisation between formal verification and evaluation approaches, methods and techniques, especially those based on the specification formalisms for concurrent, distributed and soft/hard systems. Beyond its technical and scientific goals, another main purpose of VECoS is to promote collaboration between participants in research and education in the area of computer science and engineering.

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Papers:

Raymond Devillers Deadlock Avoidance, Non-Linearity and Games

<http://dx.doi.org/10.14236/ewic/VECOS2010.1>

Laurent Fribourg Simulation + Uncertainty = Model Checking

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Hans-Michael Hanisch Building Closed-loop Models for Discrete Controller Design

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Mohammed-Amine Belhaj Seboui, Nejib Ben Hadj-Alouane, Gwenael Delaval, Eric Rutten and Moez Yeddes A Decentralized Supervisory Control Approach for Distributed Adaptive Systems

<http://dx.doi.org/10.14236/ewic/VECOS2010.4>

Annie Choquet-Geniet, Galle Skapin-Largeteau and Abdoulaye Ouattara Integrating PFairness within a Model Based Scheduling Tool

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Chafia Bouanaka, Faiza Belala and Kamel Barkaoui A Tile Logic Based Semantics for Mobile Software Architectures

<http://dx.doi.org/10.14236/ewic/VECOS2010.6>

Mohammed Amin Ben Amar, Hervé Camus and Ouajdi Korbaa Formalization of Cyclic Scheduling Problems with Assembly Tasks and Work-in-Progress Minimization

<http://dx.doi.org/10.14236/ewic/VECOS2010.7>

Laïd Kadeloul, Karim Djouani and Walid Tfaili Using Timed Colored Petri Nets and CPN-tool to Model and Verify TRBAC Security Policies

<http://dx.doi.org/10.14236/ewic/VECOS2010.8>

Brahim Nasraoui, Syrine Ayadi and Riadh Robbana SBMC: Symmetric Bounded Model Checking

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Hamid Reza Mahrooghi, Mohammad Hashem Haghighat and Rasool Jalili Formal Verification of Authentication-Type Properties of an Electronic Voting Protocol Using mCRL2

<http://dx.doi.org/10.14236/ewic/VECOS2010.10>

Hamdi Eltaief and Habib Youssef AMLCC: Adaptive Multi-Layer Connected Chains Mechanism for Multicast Sender Authentication of Media-Streaming

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Diana El Rabih, Gaël Gorgo, Nihal Pekergin and Jean-Marc Vincent Steady-State Property Verification: a Comparison Study

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