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## **AMARETTO 2018 - International Workshop on domain specific Model-based Approaches to Verification and Validation**

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**Date :** Jan 22, 2018 - 08:00 AM - Jan 24, 05:00 PM

**Event URL :** <http://www.nyeeventslist.com/events/amaretto-2018-international-workshop-on-domain-specific-model-based-approaches-to-verification-and-validation>

**Organizer :** New York Media Technologies LLC in association with INSTICC

**Venue :**

**Location :** Hotel Vila Galia Santa Cruz Rua Sã£o Fernando, 59100-173 Santa Cruz Portugal, Portugal, Portugal, US, ZIP: Portugal

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### **Description**

**International Workshop on domain specific Model-based Approaches to Verification and Validation - AMARETTO 2018**

22 - 24 January, 2018 - Funchal, Madeira, Portugal

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In conjunction with the 6th International Conference on Model-Driven Engineering and Software Development - MODELSWARD 2018

## CO-CHAIRS

### ▣ **Francesca Lonetti**

National Research Council (CNR) Pisa  
Italy

#### **Brief Bio**

Francesca Lonetti is a researcher at CNR-ISTI, Italy. Her current research focuses on monitoring and testing of software systems. In particular, she is interested in: model-based monitoring approaches; testing of security systems (access control and usage control systems); methodologies and tools for robustness testing of web services, and business process modeling and assessment. Her expertise on these research topics has been applied in the context of several national and European research projects including LearnPAd, CHOReOS, TAS3, NESSoS, CONNECT, D-ASAP. She currently serves as member of the Editorial Board of International Journal of Communication Networks and Information Security (IJCNIS). She is and has been part of the program committee of several international conferences and workshops in the field, such as ICST, MODELSWARD, AST, QUATIC, ENASE. She has been publications chair of ICST 2012 and proceedings co-chair of ICSE 2015. She is co-chair of the 11th IEEE/ACM International Workshop on Automation of Software Test (AST 2016).

### ▣ **Antonello Calabrò**

CNR-ISTI  
Italy

#### **Brief Bio**

Dr. Antonello Calabrò received his degree in Computer Science from the University of Pisa in 2007. He is a researcher and software developer at CNR-ISTI in Pisa. Since 2007 he joined Human Interface in Information System group developing software solutions for improving mobility and text recognition of blind and visually impaired people within the project INPUT and Book4All. Currently, he is working at Software Engineering and Dependable Computing Laboratory (SEDC) at CNR-ISTI, investigating on software infrastructures for monitoring of complex systems (GLIMPSE) and focusing his research on: event-driven monitoring, business processes modeling and assessment, complex events processing. His expertise on these research topics has been applied in the context of several European research projects including CONNECT, Tas3, ChoreOS and LearnPAd. He is author of several publications and was member of the ICSE 2015 organizing committee.

### ▣ **Eda Marchetti**

[www.nyeventslist.com](http://www.nyeventslist.com)

ISTI-CNR  
Italy

## **Brief Bio**

Dr. Eda Marchetti is a researcher at CNR-ISTI. She graduated summa cum laude in Computer Science from the University of Pisa (1997) and got a PhD from the same University (2003). Her research activity focuses on software testing in general and in particular on the introduction of novel methodologies for testing emerging software technologies. Her research topics include: security testing, testing of access control systems, model-based testing, SOA and component based testing, requirement management and assessment, monitoring business process, testing process management and scheduling, structural testing, interoperability testing, domain specific testing, product certification and assessment. She has served as a reviewer for several international conferences and journals, and she has been part of program committee of numerous international workshops and conferences. She has been part of the organizing committee in different international conferences and workshops; she has served as guest editor for different special issues; she has been the poster chair and publicity chair in several international conferences; she has been the track chair and the co-chair for several international conferences and workshops. She has been the responsible for ISTI-CNR of several national and international EU projects and she actively participated to more than 15 national and international projects. She has (co)authored over 50 papers in international journals and conferences.

## **SCOPE**

Recent years have witnessed the emergence of domain specific model-based approaches for verification and validation in software development. These approaches are tailored to specific needs of the domain and leverage domain knowledge to adapt and customize well-known model-based approaches for verification and validation. Specifically, in the last decades software development is driven by emerging trends such as the widespread diffusion of mobile technology, cloud infrastructures adoption as well as big data analysis and software as a service paradigm that point out new constraints and challenges for the verification and validation activity.

The workshop is held at MODELSWARD 2018 and continues the successful tradition of the last two editions of AMARETTO in the investigation of different aspects and domain specific solutions for model-based verification and validation. This workshop provides a forum for academia, industry, and research and development communities to share their knowledge, exchange experiences and ideas, and discuss challenges and future research directions.

### **Topics:**

V&V solutions for specific domain  
Domain specific testing strategies  
Safety and Security V&V  
Model-based security assessment  
Requirements elicitation and modeling  
Methodological approaches for V&V

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Generation of domain-specific V&V frameworks  
Model-driven test suite generation  
Domain specific V&V tools  
Customization of V&V methodologies to specific domain  
V&V approaches at design level  
Simulation and monitoring for specific application domain  
Business process modeling and assessment  
Testing of large scale systems  
Certification and assessment of software products  
In-house vs. third party V&V solutions  
Empirical studies and industrial experiences  
Identification of problems and visions of the future

Welcome domains of application include, but are not limited to:

Healthcare  
Telecommunication, Networks and Media  
Cloud Computing and Web Services  
Mobile Devices  
Big Data  
Automotive and Transportation  
Security and Privacy  
Cyber-Physical Systems  
Future Internet  
Internet of Things  
Finance & Business  
Social Networks

## **Important Dates**

Conference

Regular Papers

Paper Submission: September 7, 2017 (extended)

Authors Notification: October 18, 2017

Camera Ready and Registration: November 1, 2017

Position Papers

Paper Submission: September 29, 2017

Authors Notification: November 7, 2017

Camera Ready and Registration: November 20, 2017

## Workshops

Workshop Proposal: August 31, 2017

Paper Submission: November 7, 2017

Authors Notification: November 21, 2017

Camera Ready and Registration: November 29, 2017

## Doctoral Consortium

Paper Submission: November 9, 2017

Authors Notification: November 22, 2017

Camera Ready and Registration: December 5, 2017

## Special Sessions

Special Session Proposal: August 31, 2017

## Tutorials

Tutorial Proposal: November 24, 2017

## Industrial Panels

Paper Submission: November 7, 2017

Authors Notification: November 21, 2017

Camera Ready and Registration: November 29, 2017

## Demos

Demo Proposal: November 24, 2017

## Panels

Panel Proposal: November 24, 2017

## Open Communications

Paper Submission: November 9, 2017

Authors Notification: November 22, 2017

Camera Ready and Registration: December 5, 2017

## European Project Spaces

Paper Submission: November 21, 2017

Authors Notification: November 29, 2017

Camera Ready and Registration: April 16, 2018

## Keynote Lectures

Designing 3D Video Games with Models at Run-time

Franck Barbier, University of Pau, France

Engineering Software Languages for the Digital World

Bernhard Rumpe, RWTH Aachen University, Germany

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Languages for Programming: From Punched Cards to Wise Computing  
David Harel, The Weizmann Institute of Science, Israel

## Designing 3D Video Games with Models at Run-time

□  
**Franck Barbier**  
University of Pau  
France

### Brief Bio

Franck Barbier is full professor in software engineering at the University of Pau (France). His research activities and interests are object/component/service modeling through UML and the State Chart XML W3 standard, model-driven development, software design, test and runtime management for mobile and distributed systems, software adaptation, executable models and models at run-time. His last book is "Reactive Internet Programming – State Chart XML in Action", ACM Books, Morgan & Claypool, 2016. Beyond his academic position, Franck Barbier acts as business consultant for small, medium and large companies, as expert as well for the European Union and many French and worldwide organizations.

### Abstract

After 30 years, it is reasonably time to look critically at model-driven software development (MSDE). Who may nowadays claim that MSDE has been massively adopted by the software industry? Who may show numbers demonstrating that MSDE allowed/allows massive cost savings in daily software development, but, above all, software evolution? This keynote aims at showing that MSDE failed in some cases while it successes in others: "embedded models", a "composite" overview of "executable models" and "models at run-time". The keynote weakly discusses the idea and power of "embedded models" in a theoretical way. Instead, it provides feedbacks and lessons learned from the use of "embedded models" for designing a professional mobile 3D video game. Models rely on the State Chart XML W3C standard and related libraries. As concrete illustration, the keynote includes demonstrations of the game.

## Engineering Software Languages for the Digital World

□ **Bernhard Rumpe**  
RWTH Aachen University  
Germany

### **Brief Bio**

Bernhard Rumpe is heading the Software Engineering department at the RWTH Aachen University, Germany (one of the top three universities in CS as well as Mechanical Engineering). Earlier he had positions at INRIA/IRISA, Rennes, Colorado State University, TU Braunschweig, Vanderbilt University, Nashville, and TU Munich.

His main interests are rigorous and practical software and system development methods based on adequate modeling techniques. This includes agile development methods like XP and SCRUM as well as model-engineering based on UML-like notations and domain specific languages. He has too many modeling techniques, including the UML standardization. He also applies modeling, e.g. to autonomous cars, human brain simulation, BIM energy management, juristical contract digitalization, production automation, cloud, and many more. In his projects he intensively collaborates with all large German car manufacturers, energy companies, insurance and banking companies, a major aircraft company, a space company as well as innovative start-ups in the IT-related domains.

He is author and editor of ten books and Editor-in-Chief of the Springer International Journal on Software and Systems Modeling ([www.sosym.org](http://www.sosym.org)). His newest books "Agile Modeling with the UML" and "Engineering Modeling Languages: Turning Domain Knowledge into Tools" were published in 2016 and 2017.

### **Languages for Programming: From Punched Cards to Wise Computing**

□ **David Harel**  
The Weizmann Institute of Science  
Israel

### **Brief Bio**

Prof. David Harel is the Vice President of the Israel Academy of Sciences and Humanities, and has been at the Weizmann Institute of Science since 1980, serving in the past as Dean of the Faculty of Mathematics and Computer Science. He has worked in logic and computability,

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software and systems engineering, modeling biological systems, odor reproduction, and more. He invented Statecharts and co-invented Live Sequence Charts. Among his books are "Algorithmics: The Spirit of Computing", "Computers Ltd.: What They Really Can't Do" and "Come, Let's Play: Scenario-Based Programming Using LSCs and the Play-Engine". His awards include the ACM Karlstrom Outstanding Educator Award, the Israel Prize, the ACM Software System Award, the Eme't Prize, and five honorary degrees. He is a Fellow of ACM, the IEEE and the AAAS, a member of the Academia Europaea and the Israel Academy of Sciences and Humanities, and a foreign member of the US National Academy of Engineering and the American Academy of Arts and Sciences.

### **Abstract**

After very briefly discussing the main milestones in the development of programming languages, the talk will provide some details about more recent means for programming complex reactive systems. These will include scenario-based programming, the use of natural language, and a futuristic "wise computing" approach.

Please contact the event manager Marilyn below for the following:

- Discounts for registering 5 or more participants.
- If your company requires a price quotation.

Event Manager Contact: [marilyn.b.turner\(at\)nyeventslist.com](mailto:marilyn.b.turner@nyeventslist.com)

You can also contact us if you require a visa invitation letter, after ticket purchase.

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