

2017 IEEE/ACM 9th International Workshop on Modelling in Software Engineering (MiSE 2017)

**Buenos Aires, Argentina
21 – 22 May 2017**



**IEEE Catalog Number: CFP1798C-POD
ISBN: 978-1-5386-0427-4**

**Copyright © 2017 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1798C-POD
ISBN (Print-On-Demand):	978-1-5386-0427-4
ISBN (Online):	978-1-5386-0426-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2017 IEEE/ACM 9th International Workshop on Modelling in Software Engineering (MiSE 2017)

Table of Contents

Message from MiSE 2017 Workshop Chairs	vii
MiSE 2017 Program Committee	viii
MiSE 2017 Steering Committee	ix
MiSE 2017 Reviewer.....	x
ICSE 2017 Sponsors and Benefactors	xi

MiSE 2017 Workshop Summary	1
<i>Davide Di Ruscio, Marsha Chechik, and Bernhard Rumpe</i>	
— <i>Università degli Studi dell'Aquila; University of Toronto;</i>	
<i>RWTH Aachen University</i>	

Keynotes

Models for the Automated Integration of Service-Oriented Software Systems	2
<i>Paola Inverardi</i>	
— <i>University of L'Aquila</i>	
Empirical Studies into UML in Practice: Pitfalls and Prospects	3
<i>Michel R.V. Chaudron</i>	
— <i>Chalmers/Gothenburg University</i>	

Modeling Real-Time and Self-Adaptive Systems

A Restricted Natural Language Based Use Case Modeling Methodology for Real-Time Systems.....	5
<i>Huihui Zhang, Tao Yue, Shaukat Ali, Ji Wu, and Chao Liu</i>	
— <i>Beihang University; Simula Research Laboratory</i>	
Evaluation of UML-RT and Papyrus-RT for Modelling Self-Adaptive Systems	12
<i>Nafiseh Kahani, Nicolas Hili, James R. Cordy, and Juergen Dingel</i>	
— <i>Queen's University</i>	

Requirement and Risk Modeling

Model for Reducing Risks to Private or Sensitive Data	19
<i>George O.M. Yee</i> — <i>Carleton University</i>	
Specifying Evolving Requirements Models with TimedURN	26
<i>Aprajita, Sahil Luthra, and Gunter Mussbacher</i> — <i>McGill University</i>	

Modeling Environments and Applications

Online Model Editing, Simulation and Code Generation for Web and Mobile Applications	33
<i>Carlo Bernaschina, Sara Comai, and Piero Fraternali</i> — <i>Politecnico di Milano</i>	
iArch-U: Interface-Centric Integrated Uncertainty-Aware Development Environment.....	40
<i>Keisuke Watanabe, Naoyasu Ubayashi, Takuya Fukamachi, Shunya Nakamura, Hokuto Muraoka, and Yasutaka Kamei</i> — <i>Kyushu University</i>	
An Exploratory Study on the Need for Modeling Software Ecosystems: The Case of SOLAR SECO	47
<i>Emanuel Ferreira Coutinho, Davi Viana, and Rodrigo Pereira dos Santos</i> — <i>Federal University of Ceara; Federal University of Maranhão; Federal University of the State of Rio de Janeiro</i>	

Model Manipulations (Transformations, Matching, Testing)

The Epsilon Pattern Language	54
<i>Dimitris S. Kolovos and Richard F. Paige</i> — <i>University of York</i>	
ImitGraphs: Towards Faster Usability Tests of Graphical Model Manipulation Techniques.....	61
<i>Parisa Ghazi and Martin Glinz</i> — <i>Informatik</i>	
Transforming Workflow Models into Automated End-to-End Acceptance Test Cases	68
<i>Mathieu Boucher and Gunter Mussbacher</i> — <i>McGill University</i>	

Author Index	75
--------------------	----