

2017 IEEE/ACM 2nd International Workshop on Variability and Complexity in Software Design (VACE 2017)

**Buenos Aires, Argentina
27 May 2017**



**IEEE Catalog Number: CFP17G12-POD
ISBN: 978-1-5386-2804-1**

**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:	CFP17G12-POD
ISBN (Print-On-Demand):	978-1-5386-2804-1
ISBN (Online):	978-1-5386-2803-4

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 2nd International Workshop on Variability and Complexity in Software Design (VACE 2017)

Table of Contents

Message from VACE 2017 Workshop Chairs	vii
VACE 2017 Program Committee.....	viii
ICSE 2017 Sponsors and Benefactors	ix

VACE 2017 Workshop Summary.....	1
<i>Matthias Galster, Michael Goedicke, Danny Weyns, and Uwe Zdun</i>	
— <i>University of Canterbury; University of Duisburg-Essen;</i>	
<i>Katholieke Universiteit Leuven; University of Vienna</i>	

Testing

Efficient Mutation Testing in Configurable Systems	2
<i>Mustafa Al-Hajjaji, Jacob Krüger, Fabian Benduhn, Thomas Leich,</i>	
<i>and Gunter Saake</i>	
— <i>University of Magdeburg; Harz University of Applied Sciences</i>	
Towards Collective Online and Offline Testing for Dynamic Software Product Line Systems	9
<i>Joachim Hänsel and Holger Giese</i>	
— <i>University of Potsdam</i>	

Mobile and Web

Variability in Usability Tests for Android Applications	N/A
<i>Juan Enriquez and Sandra Casas</i>	
— <i>National University of Austral Patagonia</i>	
Type-Safe Evolution of Web Services	20
<i>João Campinhos, João Costa Seco, and Jácome Cunha</i>	
— <i>Universidade Nova de Lisboa</i>	

Delta-Oriented Programming

Evaluating Delta-Oriented Programming for Evolving Software Product Lines	27
<i>João P. Diniz, Gustavo Vale, Felipe Gaia, and Eduardo Figueiredo</i> — <i>Federal University of Minas Gerais; University of Passau; Federal Institute of São Paulo</i>	
Delta-Oriented Product Prioritization for Similarity-Based Product-Line Testing.....	34
<i>Mustafa Al-Hajjaji, Sascha Lity, Remo Lachmann, Thomas Thüm, Ina Schaefer, and Gunter Saake</i> — <i>University of Magdeburg; Technische Universität Braunschweig</i>	

Modelling

Implementing Operations to Combine Feature Models: The Conditional Intersection Case	41
<i>Jaime Chavarriaga, Rubby Casallas, and Viviane Jonckers</i> — <i>University of Los Andes; Vrije Universiteit Brussel</i>	
Generating Members from Framework Product Lines Employing a Model-Based Approach.....	48
<i>Victor Hugo Santiago C. Pinto</i> — <i>University of São Paulo</i>	

Author Index	55
--------------------	----