



ADAPTIVE 2016

The Eighth International Conference on Adaptive and Self-Adaptive Systems and Applications

March 20 - 24, 2016

Rome, Italy

ADAPTIVE 2016 Editors

Jaime Lloret Mauri, Polytechnic University of Valencia, Spain

Mario Freire, University of Beira Interior, Portugal

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (4238) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (4238)

International Academy, Research, and Industry Association (IARIA)
412 Derby Way
Wilmington, DE 19810

Phone: (408) 893-6407
Fax: (408) 527-6351

petre@iaria.org

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
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

On The Synthesis of Adaptive Parameter-Dependent Output Feedback Controllers Through LMI-Based Optimization <i>Graziano Chesi</i>	1
Multi-Layered Design and Game-Based Learning as a Pedagogical Concept <i>Johan Hartler and Linn Gustavsson Christiernin</i>	3
A Model for Experience-Based Agent Specific Trust <i>Mats Neovius</i>	10
Adaptive Spatio-Temporal White Space Sensing in Multiple Antenna <i>Chang-Jun Ahn</i>	16
Autonomic Cooperation Strategies for Robot Swarms <i>Catherine Saunders, Roy Sterritt, and George Wilkie</i>	20
Autonomic Self-Adaptive Robot Wheel Alignment <i>Martin Doran, Roy Sterritt, and George Wilkie</i>	27
Adaptive Construction Behavior in Robot Swarms <i>Yara Khaluf</i>	34
Adaptive Embedded Control for a Ball and Plate System <i>Jun Xiao and Giorgio Buttazzo</i>	40
The Challenge of Transforming State in the Adaptation Objects <i>Dominic Seiffert</i>	46
Ontology-based Automatic Adaptation of Component Interfaces in Dynamic Adaptive Systems <i>Yong Wang, Dirk Herrling, Peter Stroganov, and Andreas Rausch</i>	51
Hints to Address Concurrency in Self-Managed Systems at the Architectural Level - A Case Study <i>Francesco Mazzei and Claudia Raibulet</i>	59