

# **ADAPTIVE 2024**

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

April 14 - 18, 2024

Venice, Italy

## ADAPTIVE 2024 Editors

Steve Chan, VTIRL, VT/I-PAC, USA

#### 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© (2024) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2024)

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**

Agent-based Modeling in the Edge Continuum using Swarm Intelligence Melanie Schranz, Kseniia Harshina, Peter Forgacs, and Fred Buining	1 8 13
To Refurbish or not to Refurbish? Towards an AI-based Evaluation System for Power Tool Batteries Dominique Briechle,, Marit Briechle-Mathiszig, Tobias Geger, Nelly Nyeck, and Robert Werner CollectByCycle: Towards an Automatized Condition Assessment for Bicycles Tobias Geger, Dominique Briechle, Marit Briechle-Mathiszig, Nelly Nyeck, and Robert Werner	
On the Regularization of a Low-Complexity Recursive Least-Squares Adaptive Algorithm Cristian-Lucian Stanciu, Cristian Anghel, Camelia Elisei-Iliescu, Laura-Maria Dogariu, Ionut-Dorinel Ficiu, and Constantin Paleologu	26