International Journal on

Advances in Software











2016 vol. 9 nr. 3&4

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. (423:)

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

CONTENTS

pages: 154 - 165 **Tacit and Explicit Knowledge in Software Development Projects: A Combined Model for Analysis** Hanna Dreyer, University of Gloucestershire, UK Martin Wynn, University of Gloucestershire, UK

pages: 166 - 177 **Automatic KDD Data Preparation Using Parallelism** Youssef Hmamouche, LIF, France Christian Ernst, none, France Alain Casali, LIF, France

pages: 178 - 189

Business Process Model Customisation using Domain-driven Controlled Variability Management and Rule Generation

Neel Mani, Dublin City University, Ireland Markus Helfert, Dublin City University, Ireland Claus Pahl, Free University of Bozen-Bolzano, Italy

pages: 190 - 205

Automatic Information Flow Validation for High-Assurance Systems Kevin Mueller, Airbus Group, Germany Sascha Uhrig, Airbus Group, Germany Flemming Nielson, DTU Compute, Denmark Hanne Riis Nielson, DTU Compute, Denmark Ximeng Li, Technical University of Darmstadt, Germany

Michael Paulitsch, Thales Austria, Austria Georg Sigl, Technical University of Munich, Germany

pages: 206 - 220 An Ontological Perspective on the Digital Gamification of Software Engineering Concepts Roy Oberhauser, Aalen University, Germany

pages: 221 - 236

Requirements Engineering in Model Transformation Development: A Technique Suitability Framework for Model Transformation Applications

Sobhan Yassipour Tehrani, King's College London, U.K. Kevin Lano, King's College London, U.K.

pages: 237 - 246 A Computational Model of Place on the Linked Data Web Alia Abdelmoty, Cardiff University, United Kingdom Khalid Al-Muzaini, Cardiff University, United Kingdom

pages: 247 - 258

A Model-Driven Engineering Approach to Software Tool Interoperability based on Linked Data Jad El-khoury, KTH Royal Institute of Technology, Sweden Didem Gurdur, KTH Royal Institute of Technology, Sweden Mattias Nyberg, Scania CV AB, Sweden pages: 259 - 270

Unsupervised curves clustering by minimizing entropy: implementation and application to air traffic Florence Nicol, Ecole Nationale de l'Aviation Civile, France Stéphane Puechmorel, Ecole Nationale de l'Aviation Civile, France

pages: 271 - 281

An Approach to Automatic Adaptation of DAiSI Component Interfaces Yong Wang, Department of Informatics, Technical University Clausthal, Germany Andreas Rausch, Department of Informatics, Technical University Clausthal, Germany

pages: 282 - 302

Implementing a Typed Javascript and its IDE: a case-study with Xsemantics Lorenzo Bettini, Dip. Statistica, Informatica, Applicazioni, Univ. Firenze, Italy Jens von Pilgrim, NumberFour AG, Berlin, Germany Mark-Oliver Reiser, NumberFour AG, Berlin, Germany

pages: 303 - 321

EMSoD — A Conceptual Social Framework that Delivers KM Values to Corporate Organizations Christopher Adetunji, University of Southampton, England Leslie Carr, University of Southampton, England

pages: 322 - 332

An Integrated Semantic Approach to Content Management in the Urban Resilience Domain Ilkka Niskanen, Technical Research Centre of Finland, Finland Mervi Murtonen, Technical Research Centre of Finland, Finland Francesco Pantisano, Finmeccanica Company, Italy Fiona Browne, Ulster University, Northern Ireland, UK Peadar Davis, Ulster University, Northern Ireland, UK Ivan Palomares, Queen's University, Northern Ireland, UK

pages: 333 - 345

Four Public Self-Service Applications: A Study of the Development Process, User Involvement and Usability in Danish public self-service applications

Jane Billestrup, Institute of Computer Science, Aalborg university, Denmark Marta Larusdottir, Reykjavik University, Iceland Jan Stage, Institute of Computer Science, Aalborg university, Denmark

pages: 346 - 357

Using CASE Tools in MDA Transformation of Geographical Database Schemas Thiago Bicalho Ferreira, Universidade Federal de Viçosa, Brasil Jugurta Lisboa-Filho, Universidade Federal de Viçosa, Brasil Sergio Murilo Stempliuc, Faculdade Governador Ozanan Coelho, Brasil

pages: 358 - 371

Semi-Supervised Ensemble Learning in the Framework of Data 1-D Representations with Label Boosting Jianzhong Wang, College of Sciences and Engineering Techonology, Sam Houston State University, USA Huiwu Luo, Faculty of Science and Technology, University of Macau, China Yuan Yan Tang, Faculty of Science and Technology, University of Macau, China