FORMAL ONTOLOGY IN INFORMATION SYSTEMS

Frontiers in Artificial Intelligence and Applications

FAIA covers all aspects of theoretical and applied artificial intelligence research in the form of monographs, doctoral dissertations, textbooks, handbooks and proceedings volumes. The FAIA series contains several sub-series, including "Information Modelling and Knowledge Bases" and "Knowledge-Based Intelligent Engineering Systems". It also includes the biennial ECAI, the European Conference on Artificial Intelligence, proceedings volumes, and other ECCAI – the European Coordinating Committee on Artificial Intelligence – sponsored publications. An editorial panel of internationally well-known scholars is appointed to provide a high quality selection.

Series Editors:

J. Breuker, N. Guarino, J.N. Kok, J. Liu, R. López de Mántaras, R. Mizoguchi, M. Musen, S.K. Pal and N. Zhong

Volume 267

Recently published in this series

- Vol. 266. S. Parsons, N. Oren, C. Reed and F. Cerutti (Eds.), Computational Models of Argument – Proceedings of COMMA 2014
- Vol. 265. H. Fujita, A. Selamat and H. Haron (Eds.), New Trends in Software Methodologies, Tools and Techniques – Proceedings of the Thirteenth SoMeT 14
- Vol. 264. U. Endriss and J. Leite (Eds.), STAIRS 2014 Proceedings of the 7th European Starting AI Researcher Symposium
- Vol. 263. T. Schaub, G. Friedrich and B. O'Sullivan (Eds.), ECAI 2014 21st European Conference on Artificial Intelligence
- Vol. 262. R. Neves-Silva, G.A. Tshirintzis, V. Uskov, R.J. Howlett and L.C. Jain (Eds.), Smart Digital Futures 2014
- Vol. 261. G. Phillips-Wren, S. Carlsson, A. Respício and P. Brézillon (Eds.), DSS 2.0 Supporting Decision Making with New Technologies
- Vol. 260. T. Tokuda, Y. Kiyoki, H. Jaakkola and N. Yoshida (Eds.), Information Modelling and Knowledge Bases XXV
- Vol. 259. K.D. Ashley (Ed.), Legal Knowledge and Information Systems JURIX 2013: The Twenty-Sixth Annual Conference
- Vol. 258. K. Gerdes, E. Hajičová and L. Wanner (Eds.), Computational Dependency Theory
- Vol. 257. M. Jaeger, T.D. Nielsen and P. Viappiani (Eds.), Twelfth Scandinavian Conference on Artificial Intelligence – SCAI 2013
- Vol. 256. K. Gibert, V. Botti and R. Reig-Bolaño (Eds.), Artificial Intelligence Research and Development – Proceedings of the 16th International Conference of the Catalan Association for Artificial Intelligence

ISSN 0922-6389 (print) ISSN 1879-8314 (online)

Formal Ontology in Information Systems

Proceedings of the Eighth International Conference (FOIS 2014)

Edited by

Pawel Garbacz

The John Paul II Catholic University of Lublin, Poland

and

Oliver Kutz

Otto-von-Guericke University of Magdeburg, Germany



Amsterdam • Berlin • Tokyo • Washington, DC

© 2014 The authors and IOS Press.

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without prior written permission from the publisher.

ISBN 978-1-61499-437-4 (print) ISBN 978-1-61499-438-1 (online)

Library of Congress Control Number: 2014948000

Publisher
IOS Press BV
Nieuwe Hemweg 6B
1013 BG Amsterdam
Netherlands
fax: +31 20 687 0019

e-mail: order@iospress.nl

Distributor in the USA and Canada IOS Press, Inc. 4502 Rachael Manor Drive Fairfax, VA 22032 USA

fax: +1 703 323 3668

e-mail: iosbooks@iospress.com

LEGAL NOTICE

The publisher is not responsible for the use which might be made of the following information.

PRINTED IN THE NETHERLANDS