Contents

1 Supporting e-Science Using Semantic Web Technologies – The Semantic Grid ............................................. 1
   David De Roure and Carole Goble

2 Semantic Disclosure in an e-Science Environment ............. 29
   M. Scott Marshall, Marco Roos, Edgar Meij, Sophia Katrenko,
   Willem Robert van Hage, and Pieter W. Adriaans

3 A Smart e-Science Cyberinfrastructure for Cross-Disciplinary Scientific Collaborations .................. 67
   Hock Beng Lim, Mudasser Iqbal, Yuxia Yao, and
   Wenqiang Wang

4 Developing Ontologies within Decentralised Settings .......... 99
   Alexander Garcia, Kieran O’Neill, Leyla Jael Garcia,
   Phillip Lord, Robert Stevens, Oscar Corcho, and Frank Gibson

5 Semantic Technologies for Searching in e-Science Grids ........ 141
   Amitava Biswas, Suneil Mohan, and Rabi Mahapatra

6 BSIS: An Experiment in Automating Bioinformatics Tasks Through Intelligent Workflow Construction .......... 189
   Yu Pan, Enrico Pontelli, and Son Cao Tran

7 Near-Miss Detection in Nursing: Rules and Semantics .......... 239
   Mikhail Simonov and Flavia Mazzitelli

8 Toward Autonomous Mining of the Sensor Web ................. 289
   Peisheng Zhao, Liping Di, and Genong Yu

9 Towards Knowledge-Based Life Science Publication Repositories ........................................... 309
   Vít Nováček, Tudor Groza, and Siegfried Handschuh
Semantic e-Science
Chen, J.; Wang, Y.; Cheung, K.-H. (Eds.)
2010, VII, 352 p. 127 illus., Softcover
ISBN: 978-1-4419-5902-7