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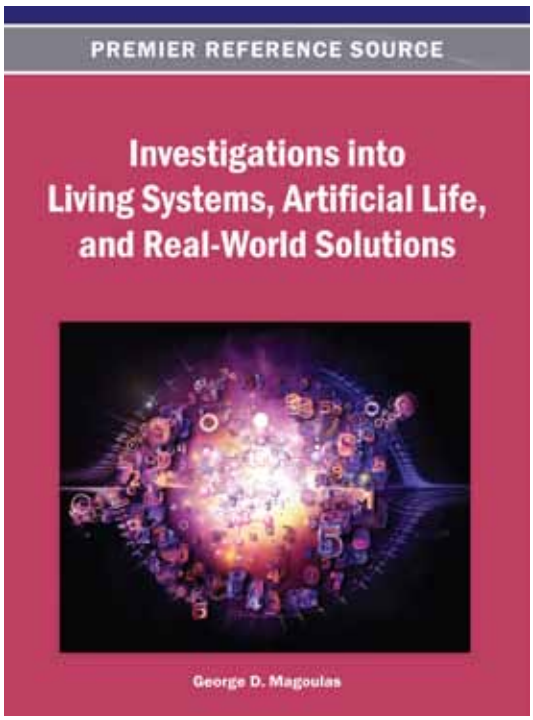
Released: April 2013

# Investigations into Living Systems, Artificial Life, and Real-World Solutions




George D. Magoulas
(University of London, UK)

Research on living systems, human level artificial systems, and machines that exhibit intelligent behavioral characteristics is fundamental in order to tackle complex and dynamic issues in nature and create applicable solutions.

**Investigations into Living Systems, Artificial Life, and Real-World Solutions** provides original research on the theoretical and applied aspects of artificial life, as well as addresses scientific, psychological, and social issues of synthetic life-like behavior and abilities. This book is essential for researchers, students, and scientists interested in the emerging discipline of artificial life to further understand and solve real-world problems.

## Topics Covered:

- Artificial Intelligence
- Cognitive Networks
- Computational Linguistics
- Intelligent Planning
- Machine Learning
- Neural Networks

ISBN: 9781466638907; © 2013; 432 pp.
Print: US $195.00 | Perpetual: US $295.00 | Print + Perpetual: US $390.00

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**Dr. George D. Magoulas** is a Reader in Computer Science in the School of Computer Science and Information Systems at Birkbeck College, University of London. Dr. Magoulas was educated at the University of Patras, Greece, in Electrical and Computer Engineering (BEng/MEng, PhD), and holds a Post Graduate Certificate in Teaching and Learning in Higher Education from Brunel University, UK. His primary research interests are learning and adaptation methods with applications to intelligent learning environments and adaptive web-based systems. He has published over 100 research contributions in leading international journals, conferences and books, and has participated in several industrial and academic research projects at European and National levels. Dr. Magoulas is a member of the IEEE, the User Modeling Inc., the Technical Chamber of Greece and the Hellenic Artificial Intelligence Society. His work in personalized systems is currently funded by the UK Engineering and Physical Sciences Research Council, and the UK Arts and Humanities Research Board.

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