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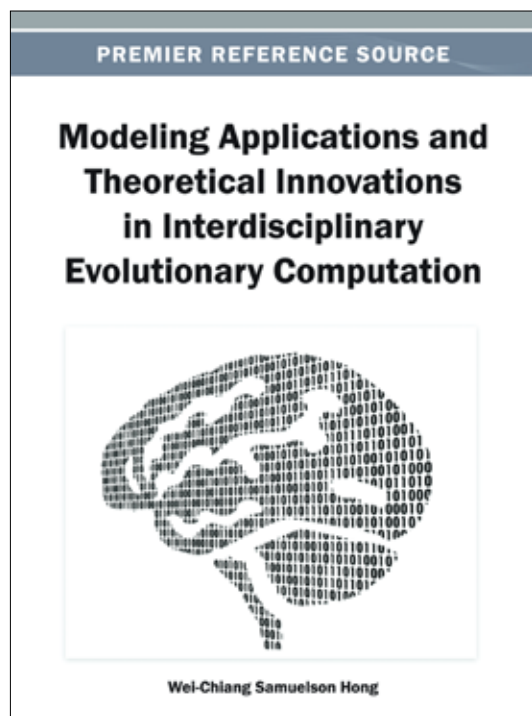
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Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation

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Evolutionary computation has emerged as a major topic in the scientific community as many of its techniques have successfully been applied to solve problems in a wide variety of fields.

Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation provides comprehensive research on emerging theories and its aspects on intelligent computation. Particularly focusing on breaking trends in evolutionary computing, algorithms, and programming, this publication serves to support professionals, government employees, policy and decision makers, as well as students in this scientific field.

Topics Covered:

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- Decision Support Systems
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- Fuzzy Computing
- Genetic Algorithm
- Neural Computing
- Optimization

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Wei-Chiang Samuelson Hong is an associate professor in the Department of Information Management at the Oriental Institute of Technology, Taiwan. His research interests mainly include computational intelligence (neural networks and evolutionary computation), and application of forecasting technology (ARIMA, support vector regression, and chaos theory), and tourism competitiveness evaluation and management. Dr. Hong's articles have been published in Applied Mathematics and Computation, Applied Mathematical Modelling, Applied Soft Computing, Control and Cybernetics, Current Issues in Tourism, Decision Support Systems, Electric Power Systems Research, Energy, Energies, Energy Conversion and Management, Energy Policy, Hydrological Processes, *IEEE Transactions on Fuzzy Systems, International Journal of Advanced Manufacturing Technology, International Journal of Electrical Power & Energy Systems, Journal of Combinatorial Optimization, Journal of Systems and Software, Journal of Systems Engineering and Electronics,* Mathematical Problems in Engineering, Neural Computing and Applications, Neurocomputing, and Water Resources Management, among others. Dr. Hong is currently on the editorial board of several journals, including *International Journal of Applied Evolutionary Computation,* Neurocomputing, Applied Soft Computing, Mathematical Problems in Engineering, and Energy Sources Part B: Economics, Planning, and Policy. Dr. Hong presently teaches courses in the areas of forecasting methodologies and applications, hybridizing evolutionary algorithms, and conducts research in the areas of prediction modeling, simulation and optimization; artificial neural network, and novel forecasting development. Dr. Hong serves as the program committee of various international conferences including premium ones such as IEEE CEC, IEEE CIS, IEEE ICNSC, IEEE SMC, IEEE CASE, and IEEE SMCia, etc.. In May 2012, his paper had been evaluated as "Top Cited Article 2007-2011" by Elsevier Publisher (Netherlands). In Sep. 2012, once again, his paper had been indexed in ISI Essential Science Indicator database as Highly Cited Papers, in the meanwhile, he also had been awarded as the Model Teacher Award by Taiwan Private Education Association. Dr. Hong is a senior member of IIE and IEEE. He is indexed in the list of *Who's Who in the World* (25th-29th Editions), *Who's Who in Asia* (2nd Edition), and *Who's Who in Science and Engineering* (10th and 11th Editions).

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