Handbook of Research on Artificial Intelligence Techniques and Algorithms

Part of the Advances in Computational Intelligence and Robotics Book Series

Pandian Vasant (Universiti Teknologi Petronas, Malaysia)

For decades, optimization methods such as Fuzzy Logic, Artificial Neural Networks, Firefly, Simulated annealing, and Tabu search, have been capable of handling and tackling a wide range of real-world application problems in society and nature. Analysts have turned to these problem-solving techniques in the event during natural disasters and chaotic systems research.

The Handbook of Research on Artificial Intelligence Techniques and Algorithms highlights the cutting edge developments in this promising research area. This premier reference works applies Meta-heuristics Optimization (MO) Techniques to real world problems in a variety of fields including business, logistics, computer science, engineering, and government. This work is particularly relevant to researchers, scientist, decision makers, managers and practitioners.

Topics Covered:
- Actuator Constraints
- Bees Algorithm
- Electromagnetism-Like Algorithms
- Fuzzy Logic in Healthcare
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- GPR and RVM Based Predictions
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- Multi-Objective Optimization Algorithm
- Reliability Algorithms Production System
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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Pandian Vasant is an Executive Editor of Global Journal of Technology and Optimization and Editor-in-Chief of International Journal of Energy Optimization and Engineering. His main research interests are in the areas of Optimization Methods and Applications to Decision Making and Industrial Engineering, Fuzzy Optimization, Computational Intelligence, and Hybrid Soft Computing. Pandian Vasant has co-authored 200 research papers and articles in national journals, international journals, conference proceedings, conference paper presentations, and special issues as lead guest editor, lead guest editor for book chapters’ project, conference abstracts, edited books, and book chapters. In 2009, Pandian Vasant was awarded top reviewer for the Journal of Applied Soft Computing (Elsevier). He has been Co-Editor for AIP Conference Proceedings of PCO (Power Control and Optimization) conferences from 2008 until 2013 and editorial board member of international journals in the area of Soft Computing, Hybrid Optimization, and Computer Applications. Google Scholar Citations: h-index is 17; i10-index is 28 (Citation Indices).
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