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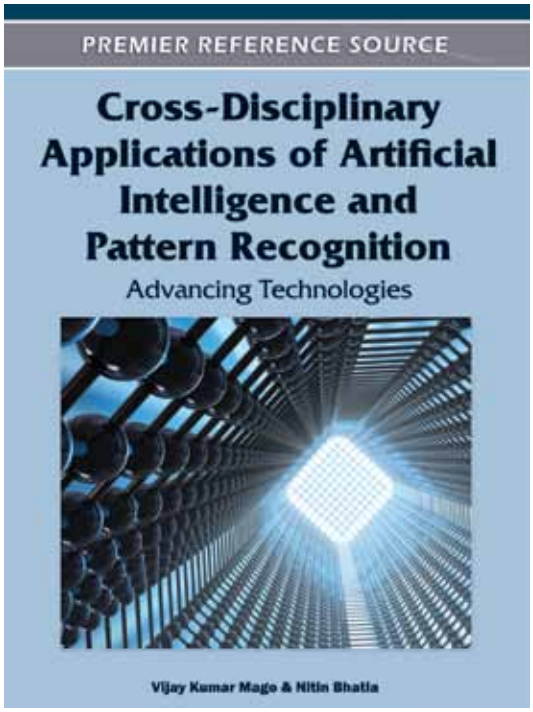
Released: December 2011

Cross-Disciplinary Applications of Artificial Intelligence and Pattern Recognition: Advancing Technologies



ISBN: 9781613504291; © 2012; 784 pp.
Print: US $195.00 | Perpetual: US $295.00 | Print + Perpetual: US $390.00

Vijay Kumar Mago (Simon Fraser University, Canada)
and Nitin Bhatia (DAV College, India)

The need for intelligent machines in areas such as medical diagnostics, biometric security systems, and image processing motivates researchers to develop and explore new techniques, algorithms, and applications in this evolving field.

Cross-Disciplinary Applications of Artificial Intelligence and Pattern Recognition: Advancing Technologies provides a common platform for researchers to present theoretical and applied research findings for enhancing and developing intelligent systems. Through its discussions of advances in and applications of pattern recognition technologies and artificial intelligence, this reference highlights core concepts in biometric imagery, feature recognition, and other related fields, along with their applicability.

Topics Covered:

- Applications of Computer Vision
- Document Image Analysis
- Face Recognition
- Genetic Algorithms
- Intelligent Tutoring Systems
- Medical Image Analysis
- Multi Agent Systems
- Natural Language Processing
- Neural Networks
- Pattern Recognition for Bioinformatics

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Vijay Kumar Mago received his PhD in Computer Science from Panjab University, India, in 2010. In January 2011, he joined The Modelling of Complex Social Systems (MoCSSy) program, The IRMACS Centre, Simon Fraser University, Canada as postdoctoral fellow. His research interests include decision making in multi-agent environment, probabilistic networks, neural networks, and fuzzy logic based expert systems. He has served on the program committees of many international conferences and workshops. He is also associated with various international journals as reviewer and as an associate editor with *Journal of Intelligent Systems*.

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