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Page 1 PAGE 2 of the book Computational Intelligence: Principles, Techniques and Applications presents both theories and applications of computational intelligence in clear, accurate and extremely comprehensive style. The textbook deals with the basic aspects of Fuzzy sets and logic, neural networks, evolutionary computing and belief networks. Applications include Fuzzy Databases, fuzzy control, image understanding, expert systems, object recognition, criminal investigation, telecommunications networks and intelligent robots. The book contains many numerical examples and home problems with sufficient tips so that students can solve them on their own. Emerging areas of computer intelligence such as artificial life, particle beam optimization, artificial immune system, fuzzy chaos theory, rough sets and granular computing have also been addressed in this book. At the end of the book, the discussion of a number of open-ended research problems with computational intelligence. Graduate students interested in continuing their research on this topic will greatly benefit from these problems. Multi-agent system artificial life chaos theory databases evolution evolutionary calculation expert system machine learning neural network pattern recognition probability reasoning reinforcement learning robotic robotics Computational Intelligence: Principles, techniques and applications demonstrate both theories and applications of computational intelligence in a clear, accurate and extremely comprehensive style. The textbook addresses the basic aspects of fuzzy sets and logic, neural networks, evolutionary computing and belief networks. Applications include fuzzy databases, fuzzy control, image intelligence, expert systems, object recognition, criminal investigation, telecommunications networks and intelligent robots. The book contains many numerical examples and home problems with sufficient tips so that students can solve them on their own. Advanced Computing, networking and IT have three different and mutually exclusive disciplines of knowledge with no visible sharing/overlap between them. However, their convergence can be observed in many real-world applications, including cybersecurity, internet banking, healthcare, sensor networks, cognitive radio, all-in-one computing among many other applications. This two-volume process examines the combined use of Advanced Computing and Informatics in next-generation wireless networks, as well as security, signal and image processing, ontology, and human-computer interfaces (HCI). Together, the two volumes include 148 scientific studies, which were adopted to present more than 640 submissions at the 2014 Second International Conference on Advanced Computing, Networking and Informatics, held in Kolkata, India, from June 24-26, 2014. Az Volume 2 includes innovative computing techniques and relevant research results in IT, with selective applications pattern detection, signal/image processing and HCI. The second volume, on the other hand, describes the possible scope of computing techniques and IT methods for wireless communication, networking, and security. Academia.edu no longer supports internet Explorer. To Academia.edu and a wider web for faster and safer browsing, please take a few seconds to update your browser. Academia.edu uses cookies to personalize content, personalize ads, and improve the user experience. By using our site, you agree to our collection of information by using cookies. For more information, please refer to our privacy policy. x our policy. x

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