Soft Computing Techniques in Engineering Applications [

Patnaik, Srikanta,
ed. lit
Zhong, Baojiang,
ed. lit

Springer International Publishing,
2014

Engineering | Computer vision | Consciousness | Computational Intelligence | Image Processing and Computer Vision | Cognitive Psychology

Monografía

The Soft Computing techniques, which are based on the information processing of biological systems are now massively used in the area of pattern recognition, making prediction & planning, as well as acting on the environment. Ideally speaking, soft computing is not a subject of homogeneous concepts and techniques; rather, it is an amalgamation of distinct methods that confirms to its guiding principle. At present, the main aim of soft computing is to exploit the tolerance for imprecision and uncertainty to achieve tractability, robustness and low solutions cost. The principal constituents of soft computing techniques are probabilistic reasoning, fuzzy logic, neuro-computing, genetic algorithms, belief networks, chaotic systems, as well as learning theory. This book covers contributions from various authors to demonstrate the use of soft computing techniques in various applications of engineering. .

Título: Soft Computing Techniques in Engineering Applications Recurso electrónico] edited by Srikanta Patnaik, Baojiang Zhong

Editorial: Cham Springer International Publishing Imprint: Springer 2014

Editorial: Cham Springer International Publishing 2014

Descripción física: VI, 206 p. 134 il., 57 il. col

Mención de serie: Studies in Computational Intelligence 543

Nota general: Bibliographic Level Mode of Issuance: Monograph

Bibliografía: Includes bibliographical references

Contenido: From the Contents: Machine Vision Solutions in Automotive Industry Kinect Quality Enhancement for Triangular Mesh Reconstruction with a Medical Image Application -- Matlab GUI Package for Comparing Data Clustering Algorithms -- Multi Objective Line Symmetry Based Evolutionary Clustering Approach -- An Efficient Method for Contrast Enhancement of Digital Mammographic Images -- Simulation of Obstacle Detection and

Speed Control for Autonomous Robotic Vehicle -- A Review of Global Path Planning Algorithms for Planar Navigation of Autonomous Underwater Robots

Lengua: English

ISBN: 9783319046938 9783319046945 9783319046921 9783319375014

Materia: Engineering Computer vision Consciousness Computational Intelligence Image Processing and Computer Vision Cognitive Psychology

Autores: Patnaik, Srikanta, ed. lit Zhong, Baojiang, ed. lit

Enlace a serie principal: Studies in Computational Intelligence (CKB)1000000000238186 (DLC) (OCoLC) 1860-9503

Enlace a formato físico adicional: 3-319-04692-6

Punto acceso adicional serie-Título: Studies in Computational Intelligence 543

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es