

<<Intelligent systems >>

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内容概要

The field of 'intelligent interfaces and systems' has witnessed a rapid growth during the last decade. An impressive number of papers, conference tutorials, and volumes have been devoted to the topic. Ten years ago, intelligent systems constituted a rather exotic topic and many were skeptical as to whether such systems would amount to more than a nice name. Nowadays, intelligent systems represent a powerful tool in many applications, in all industrial fields. Their development evolved on both the horizontal dimension, with a constantly increasing number of applications, and on the vertical dimension, by including more capabilities ranging from sensoric to neurofuzzy systems, intelligent agents, speech and image understanding, and decision making in complex environments. Intelligent Systems and Interfaces represents a comprehensive coverage of the field, including fundamental aspects, software-, sensors-, and hardware-related issues. Moreover, the contributors to this volume offer, beyond a systematic overview of intelligent interfaces and systems, deep, practical knowledge in building and using intelligent systems in various applications. Special emphasis is placed on specific aspects and requirements in applications. Intelligent Systems and Interfaces is intended to be an essential tool for the scientific community in all areas of applied intelligent technologies. The chapters are written by a selected pool of experts in the field of intelligent systems. The contributors thoroughly review the state of the art, explain the problems to be addressed and show how these problems can be solved. Extensive references are included, offering the reader a perspective on the currently available literature and trends. Intelligent Systems and Interfaces is an important reference on intelligent systems, intended for a large audience. Graduate and postgraduate students in computer science, electronics, micro-technology, robotics, and control theory will benefit from this comprehensive, in-depth study of the topic. Engineers from high-tech industries and researchers involved in the design, manufacturing, and use of intelligent interfaces and systems and of related technologies will find many solutions to research and design problems.

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