



Intelligent Systems: Architecture, Design, and Control

By Alexander M. Meystel, James S. Albus

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This comprehensive treatment of the field of intelligent systems is written by two of the foremost authorities in the field. The authors clearly examine the theoretical and practical aspects of these systems. The book focuses on the NIST-RCS (Real-time Control System) model that has been used recently in the Mars Rover.

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Editorial Review

Review

"An original model of intelligent systems ins introduced, integrating knowledge from diverse sources and developing a general theory that can be used for analysis of all kinds of highly complex systems..." (SciTech Book News, Vol. 25, No. 4, December 2001)

"...It is a highly valuable book for students, workers and researchers in this area." (Measurement & Control, May 2003)

From the Back Cover

A cutting-edge, multidisciplinary framework for intelligent systems

While intelligence is a difficult concept to comprehend, research into its mechanisms and functions is rapidly exploding in both biological and artificial systems. This book introduces an original model of intelligent systems, integrating knowledge from diverse sources and developing a general theory that can be used for the analysis of all kinds of highly complex systems, from whole economies to integrated manufacturing.

Intelligence as a computational phenomenon dwells upon grouping, focusing attention, and combinatorial search as its fundamental operators. In this groundbreaking work, Alex Meystel and James Albus, two of the foremost authorities in the field, draw on two decades of testing the theory in robots and other smart machines. (Dr. Meystel developed an autonomous Dune-Buggy in 1983–1987; Dr. Albus's work forms the basis for the control system used in the Army Demo III Experimental Unmanned Ground Vehicle program, 1997- present.) Special coverage of the NIST-RCS (Real-time Control System) model is also featured in this liberally illustrated and clearly written book.

Focusing on intelligence as a computational phenomenon with a multiresolutional architecture, *Intelligent Systems: Architecture, Design, and Control* promises to dramatically influence future research and development in intelligence worldwide. It is a one-of-a-kind resource for scientists, engineers, and anyone wishing to explore the contemporary theory and tools of computational intelligence.

About the Author

ALEXANDER M. MEYSTEEL, PhD, is Professor of Electrical and Computer Engineering at Drexel University, Philadelphia, Pennsylvania.

JAMES S. ALBUS, PhD, is Senior NIST Fellow in the Intelligent Systems Division at the National Institute of Standards and Technology.

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