

1. Record Nr.	UNINA9910143491203321
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Titolo	Foundations of soft case-based reasoning [[electronic resource] /] / Sankar K. Pal, Simon C.K. Shiu
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2004
ISBN	1-280-36798-9 9786610367986 0-470-34668-X 0-471-64466-8 0-471-64467-6
Descrizione fisica	1 online resource (298 p.)
Collana	Wiley series on intelligent systems
Altri autori (Persone)	ShiuSimon C. K
Disciplina	006.3
Soggetti	Soft computing Case-based reasoning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	FOUNDATIONS OF SOFT CASE-BASED REASONING; CONTENTS; FOREWORD; PREFACE; ABOUT THE AUTHORS; 1 INTRODUCTION; 1.1 Background; 1.2 Components and Features of Case-Based Reasoning; 1.2.1 CBR System versus Rule-Based System; 1.2.2 CBR versus Human Reasoning; 1.2.3 CBR Life Cycle; 1.3 Guidelines for the Use of Case- Based Reasoning; 1.4 Advantages of Using Case-Based Reasoning; 1.5 Case Representation and Indexing; 1.5.1 Case Representation; 1.5.2 Case Indexing; 1.6 Case Retrieval; 1.7 Case Adaptation; 1.8 Case Learning and Case-Base Maintenance; 1.8.1 Learning in CBR Systems 1.8.2 Case-Base Maintenance1.9 Example of Building a Case-Based Reasoning System; 1.9.1 Case Representation; 1.9.2 Case Indexing; 1.9.3 Case Retrieval; 1.9.4 Case Adaptation; 1.9.5 Case-Base Maintenance; 1.10 Case-Based Reasoning: Methodology or Technology?; 1.11 Soft Case-Based Reasoning; 1.11.1 Fuzzy Logic; 1.11.2 Neural Networks; 1.11.3 Genetic Algorithms; 1.11.4 Some CBR Tasks for Soft Computing Applications; 1.12 Summary; References; 2 CASE REPRESENTATION AND INDEXING; 2.1 Introduction; 2.2 Traditional Methods of Case Representation; 2.2.1 Relational

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2.2.2 Object-Oriented Representation 2.2.3 Predicate Representation;

2.2.4 Comparison of Case Representations; 2.3 Soft Computing

Techniques for Case Representation; 2.3.1 Case Knowledge

Representation Based on Fuzzy Sets; 2.3.2 Rough Sets and Determining

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2.4.2 Case Indexing Using a Bayesian Model; 2.4.3 Case Indexing Using

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Layered Back Propagation Neural Network; 2.5 Summary; References

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3.2.4 Other Similarity Measures; 3.2.5 k-Nearest Neighbor Principle;

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Pattern Indiscernibility and Fuzzy Discretization of Feature Space; 3.8.2

Methodology for Generation of Reducts; 3.8.3 Rough SOM

3.8.4 Experimental Results

Sommario/riassunto

Provides a self-contained description of this important aspect of information processing and decision support technology. Presents basic definitions, principles, applications, and a detailed bibliography. Covers a range of real-world examples including control, data mining, and pattern recognition.
