1. Record Nr. UNINA9910825426603321 Autore Cox Earl Titolo Fuzzy modeling and genetic algorithms for data mining and exploration // Earl Cox San Francisco, CA, : Elsevier/Morgan Kaufmann, c2005 Pubbl/distr/stampa **ISBN** 1-280-96129-5 9786610961290 0-08-047059-9 Edizione [1st edition] Descrizione fisica 1 online resource (553 p.) The Morgan Kaufmann series in data management systems Collana Disciplina 006.3/12 Soggetti Data mining Fuzzy logic Genetic algorithms Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Front Cover; Fuzzy Modeling and Genetic Algorithms for Data Mining and Exploration; Copyright Page; Contents; Preface; Objectives and Audience; Organization of the Book; Algorithm Definitions and Examples; Acknowledgments; Introduction; The Modern Connected World; The Advent of Intelligent Models; Fuzzy Logic and Genetic Algorithms; Part I: Concepts and Issues; Chapter 1. Foundations and Ideas: 1.1 Enterprise Applications and Analysis Models: 1.2 Distributed and Centralized Repositories; 1.3 The Age of Distributed Knowledge; 1.4 Information and Knowledge Discovery 1.5 Data Mining and Business Models1.6 Fuzzy Systems for Business Process Models: 1.7 Evolving Distributed Fuzzy Models: 1.8 A Sample Case: Evolving a Model for Customer Segmentation; 1.9 Review; Chapter 2. Principal Model Types: 2.1 Model and Event State Categorization; 2.2 Model Type and Outcome Categorization; 2.3 Review; Chapter 3. Approaches to Model Building; 3.1 Ordinary Statistics: 3.2 Nonparametric Statistics: 3.3 Linear Regression in Statistical Models: 3.4 Nonlinear Growth Curve Fitting: 3.5 Cluster

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Sommario/riassunto

Fuzzy Modeling and Genetic Algorithms for Data Mining and Exploration is a handbook for analysts, engineers, and managers involved in developing data mining models in business and government. As you'll discover, fuzzy systems are extraordinarily valuable tools for representing and manipulating all kinds of data, and genetic algorithms and evolutionary programming techniques drawn from biology provide the most effective means for designing and tuning these systems. You don't need a background in fuzzy modeling or genetic algorithms to benefit, for this book provides it, along with