1. Record Nr. UNISALENTO991004034169707536

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Titolo	MATLAB machine learning recipes : a problem-solution approach / Michael Paluszek and Stephanie Thomas
ISBN	9781484239155
Edizione	[2nd ed.]
Descrizione fisica	xix, 347 p. : ill. ; 26 cm
Altri autori (Persone)	Thomas, Stephanieauthor
Disciplina	006.31
Soggetti	Machine learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	Introduction -- An overview of machine learning -- Representation of data for machine learning in MATLAB -- MATLAB graphics -- Kalman filters -- Adaptive control -- Fuzzy logic -- Data classification with decision trees -- Introduction to neural nets -- Classification of numbers using neural networks -- Pattern recognition with deep learning -- Neural aircraft control -- Multiple hypothesis testing -- Autonomous driving with multiple hypothesis testing -- Case-based expert systems -- A brief history of autonomous learning -- Software for machine learning
Sommario/riassunto	Harness the power of MATLAB to resolve a wide range of machine learning challenges. This book provides a series of examples of technologies critical to machine learning. Each example solves a real-world problem. All code in MATLAB Machine Learning Recipes: A Problem-Solution Approach is executable. The toolbox that the code uses provides a complete set of functions needed to implement all aspects of machine learning. Authors Michael Paluszek and Stephanie Thomas show how all of these technologies allow the reader to build sophisticated applications to solve problems with pattern recognition, autonomous driving, expert systems, and much more. You will: Learn to write code for machine learning, adaptive control and estimation using MATLAB See how these three areas complement each other Understand why these three areas are needed for robust machine learning applications Use MATLAB graphics and visualization tools for machine learning Code real world examples in MATLAB for major