1. Record Nr. UNISALENTO991001420749707536

Autore	Basile, Irene
Titolo	Teoria di Polya sull'enumerazione ed applicazioni combinatorie. Tesi di laurea / laureanda Irene Basile ; relat. Wengchang Chu ; correlat. Raffaele Vitolo
Pubbl/distr/stampa	Lecce : Università degli studi. Facoltà di Scienze. Corso di laurea in Matematica, a.a. 1999-00
Classificazione	AMS 05A15 AMS 06A07 AMS 15A03
Altri autori (Persone)	Chu, Wengchang Vitolo, Raffaele
Soggetti	Combinatorics of partially ordered sets Exact enumeration problems
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

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Autore	Araghinejad Shahab
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ISBN	94-007-7506-7
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Descrizione fisica	1 online resource (XIII, 292 p. 142 illus., 79 illus. in color.)
Collana	Water Science and Technology Library, , 0921-092X ; ; 67
Disciplina	620.00151
Soggetti	Hydrogeology Hydrology Environmental sciences Water - Pollution Environmental monitoring Environmental management Hydrology/Water Resources Math. Appl. in Environmental Science Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Monitoring/Environmental Analysis Environmental Management
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- 1. Introduction -- 2. Basic Statistics -- 3. Regression Based Models -- 4. Time Series Modeling -- 5. Artificial Neural Networks -- 6. Support Vector Machines.- 7. Fuzzy Models -- 8. Hybrid Models and Multi Model Data Fusion -- Appendix -- Index. .
Sommario/riassunto	“Data-Driven Modeling: Using MATLAB® in Water Resources and Environmental Engineering” provides a systematic account of major concepts and methodologies for data-driven models and presents a unified framework that makes the subject more accessible to and applicable for researchers and practitioners. It integrates important theories and applications of data-driven models and uses them to deal with a wide range of problems in the field of water resources and

environmental engineering such as hydrological forecasting, flood analysis, water quality monitoring, regionalizing climatic data, and general function approximation. The book presents the statistical-based models including basic statistical analysis, nonparametric and logistic regression methods, time series analysis and modeling, and support vector machines. It also deals with the analysis and modeling based on artificial intelligence techniques including static and dynamic neural networks, statistical neural networks, fuzzy inference systems, and fuzzy regression. The book also discusses hybrid models as well as multi-model data fusion to wrap up the covered models and techniques. The source files of relatively simple and advanced programs demonstrating how to use the models are presented together with practical advice on how to best apply them. The programs, which have been developed using the MATLAB® unified platform, can be found on extras.springer.com. The main audience of this book includes graduate students in water resources engineering, environmental engineering, agricultural engineering, and natural resources engineering. This book may be adapted for use as a senior undergraduate and graduate textbook by focusing on selected topics. Alternatively, it may also be used as a valuable resource book for practicing engineers, consulting engineers, scientists and others involved in water resources and environmental engineering.