1. Record Nr. UNINA9910453366303321

Titolo	Direct and inverse problems in wave propagation and applications / / edited by Ivan Graham [and three others]
Pubbl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter GmbH & Company, , [2013] ©2013
ISBN	3-11-028228-3
Descrizione fisica	1 online resource (328 p.)
Collana	Radon Series on Computational and Applied Mathematics ; ; 14
Classificazione	UF 5000
Altri autori (Persone)	GrahamIvan G
Disciplina	621.3841/10151535
Soggetti	Radio wave propagation Radio waves - Diffraction Radio waves - Scattering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Preface -- Contents -- Differential electromagnetic imaging / Ammari, Habib -- Multitrace boundary integral equations / Claeys, Xavier / Hiptmair, Ralf / Jerez-Hanckes, Carlos -- Direct and Inverse Elastic Scattering Problems for Diffraction Gratings / Elschner, Johannes / Hu, Guanghui -- Multigrid methods for Helmholtz problems: A convergent scheme in 1D using standard components / Ernst, Oliver G. / Gander, Martin J. -- Explicit local time-stepping methods for time-dependent wave propagation / Grote, Marcus J. / Mitkova, Teodora -- Absorbing boundary conditions and perfectly matched layers in wave propagation problems / Nataf, Frédéric -- Dynamic inverse scattering / Potthast, Roland W. E. -- Boundary integral equations for Helmholtz boundary value and transmission problems / Steinbach, Olaf -- Color plates -- Index
Sommario/riassunto	This book is the third volume of three volume series recording the "Radon Special Semester 2011 on Multiscale Simulation & Analysis in Energy and the Environment" taking place in Linz, Austria, October 3-7, 2011. This book surveys recent developments in the analysis of wave propagation problems. The topics covered include aspects of the forward problem and problems in inverse problems, as well as

applications in the earth sciences. Wave propagation problems are ubiquitous in environmental applications such as seismic analysis, acoustic and electromagnetic scattering. The design of efficient numerical methods for the forward problem, in which the scattered field is computed from known geometric configurations is very challenging due to the multiscale nature of the problems. Even more challenging are inverse problems where material parameters and configurations have to be determined from measurements in conjunction with the forward problem. This book contains review articles covering several state-of-the-art numerical methods for both forward and inverse problems. This collection of survey articles focusses on the efficient computation of wave propagation and scattering is a core problem in numerical mathematics, which is currently of great research interest and is central to many applications in energy and the environment. Two generic applications which resonate strongly with the central aims of the Radon Special Semester 2011 are forward wave propagation in heterogeneous media and seismic inversion for subsurface imaging. As an example of the first application, modelling of absorption and scattering of radiation by clouds, aerosol and precipitation is used as a tool for interpretation of (e.g.) solar, infrared and radar measurements, and as a component in larger weather/climate prediction models in numerical weather forecasting. As an example of the second application, inverse problems in wave propagation in heterogeneous media arise in the problem of imaging the subsurface below land or marine deposits. The book records the achievements of Workshop 3 "Wave Propagation and Scattering, Inverse Problems and Applications in Energy and the Environment". It brings together key numerical mathematicians whose interest is in the analysis and computation of wave propagation and scattering problems, and in inverse problems, together with practitioners from engineering and industry whose interest is in the applications of these core problems.

2. Record Nr. UNICASMIL0555793

Autore	Packman, Zola M.
Titolo	The taxes in grain in Ptolemaic Egypt : a study of the receipts issued from the granary of Diospolis Magna during the years 164 to 88 BC : a dissertation ... / Zola Marie Packman
Pubbl/distr/stampa	[S.l.], : [s.n.], 19.
Descrizione fisica	186 p
Disciplina	930
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Manufatto interno.

3. Record Nr. UNINA9910484710203321

Titolo	Unconventional Computation : 4th International Conference, UC 2005, Sevilla, Spain, October 3-7, Proceedings / / edited by Cristian S. Calude, Michael J. Dinneen, Gheorghe Paun, Mario de Jesus Pérez-Jiménez, Grzegorz Rozenberg
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (XI, 267 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 3699
Altri autori (Persone)	CaludeCristian <1952->
Disciplina	006.3
Soggetti	Computer science Algorithms Bioinformatics Theory of Computation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph

Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Using Genetic Algorithms to Evolve Behavior in Cellular Automata -- Quantum Searching Amidst Uncertainty -- Logic Functions of the Genomic Cis-regulatory Code -- Structural DNA Nanotechnology: Molecular Construction and Computation -- Natural Inspiration for Artificial Adaptivity: Some Neurocomputing Experiences in Robotics -- Regular Papers -- On Self-assembly in Population P Systems -- A Web-Based P Systems Simulator and Its Parallelization -- Communication Complexity as a Principle of Quantum Mechanics -- On Model-Checking of P Systems -- Looking for Simple Common Schemes to Design Recognizer P Systems with Active Membranes That Solve Numerical Decision Problems -- P Systems with Active Membranes, Without Polarizations and Without Dissolution: A Characterization of P -- Discrete State Transition Systems on Continuous Space-Time: A Theoretical Model for Amorphous Computing -- On Reversible Cellular Automata with Finite Cell Array -- A Computational Model for Self-assembling Flexible Tiles -- On Formulations of Firing Squad Synchronization Problems -- Computation in One-Dimensional Piecewise Maps and Planar Pseudo-Billiard Systems -- On the Importance of Parallelism for Quantum Computation and the Concept of a Universal Computer -- On Computational Complexity of Counting Fixed Points in Symmetric Boolean Graph Automata -- A New Sibling of BQP -- A Twelve-State Optimum-Time Synchronization Algorithm for Two-Dimensional Rectangular Cellular Arrays -- Computing by Self-reproduction: Autopoietic Automata -- Lower Bounds on the Computational Power of an Optical Model of Computation -- On Counterfactual Computation.
Sommario/riassunto	The Fourth International Conference on Unconventional Computation, UC 2005, organized under the auspices of EATCS by the Centre for Discrete Mathematics and Theoretical Computer Science and the Department of C- puter Science and Arti?cial Intelligence of the University of Seville, was held in Seville, October 3–7, 2005. Seville, one of the most beautiful cities in Spain, is at its best in October. An explosion of colour and contrast: ?amenco, bull?ghting, and a lively at-sphere in the streets due to the open and friendly nature of its people. The river Guadalquivir, the Cathedral and the Golden Tower are all places full of magic where the visitor can feel the spirit of a city which is eternally romantic. The series of International Conferences Unconventional Computation (UC),https://www.cs.auckland.ac. nz/CDMTCS/conferences/uc/isdevoted to all aspects of unconventional computation, theory as well as experiments and applications. Typical, but not exclusive, topics are: natural computing including quantum, cellular,molecular, neural and evolutionarycomputing; chaosand - namical systems based computing; and various proposals for computations that go beyond the Turing model. The ?rst venue of the Unconventional Computation Conference (formerly called Unconventional Models of Computation) was Auckland, New Zealand in 1998; subsequent sites of the conference were Brussels, Belgium in 2000 and Kobe, Japan in 2002. The titles of the proceedings volumes from past UC Conferences are as follows: 1. C.S. Calude, J. Casti, M.J. Dinneen (eds.). Unconventional Models of C- putation, Springer-Verlag, Singapore, 1998, viii + 426 pp. ISBN: 981-3083- 69-7.