

1. Record Nr.	UNINA9910299780703321
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Titolo	Numerical PDE-Constrained Optimization // by Juan Carlos De los Reyes
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-13395-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (129 p.)
Collana	SpringerBriefs in Optimization, , 2191-575X
Disciplina	510 511/.8 515.353 518 519.6
Soggetti	Mathematical optimization Differential equations Numerical analysis Optimization Differential Equations Numerical Analysis
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	Introduction -- Basic Theory of Partial Differential Equations and Their Discretization -- Theory of PDE-constrained Optimization -- Numerical Optimization Methods -- Box-constrained Problems -- Nonsmooth PDE-constrained Optimization.
Sommario/riassunto	This book introduces, in an accessible way, the basic elements of Numerical PDE-Constrained Optimization, from the derivation of optimality conditions to the design of solution algorithms. Numerical optimization methods in function-spaces and their application to PDE-constrained problems are carefully presented. The developed results are illustrated with several examples, including linear and nonlinear ones. In addition, MATLAB codes, for representative problems, are included. Furthermore, recent results in the emerging field of

nonsmooth numerical PDE constrained optimization are also covered. The book provides an overview on the derivation of optimality conditions and on some solution algorithms for problems involving bound constraints, state-constraints, sparse cost functionals and variational inequality constraints.

2. Record Nr.	UNINA9910483574103321
Titolo	Engineering Societies in the Agents World X : 10th International Workshop, ESAW 2009, Utrecht, The Netherlands, November 18-20, 2009, Proceedings // edited by Huib Aldewereld, Virginia Dignum, Gauthier Picard
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	3-642-10203-4
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XIII, 258 p.)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 5881
Classificazione	DAT 709f SS 4800
Altri autori (Persone)	AldewereldHuib DignumVirginia PicardGauthier
Disciplina	006.322gerDNB
Soggetti	Artificial intelligence Software engineering Computer simulation Social sciences - Data processing Computer programming Artificial Intelligence Software Engineering Computer Modelling Computer Application in Social and Behavioral Sciences Programming Techniques
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.

1: Invited Talks -- The Immurgence of Norms in Agent Worlds -- Thinking Integral: How to Build Complex Systems That Live with People and Exhibit Collective Intelligence -- 2: Self-organisation -- A Space-Based Generic Pattern for Self-Initiative Load Balancing Agents -- A Goal-Oriented Approach for Modelling Self-organising MAS -- Engineering Agent Organisations in a Business Environment -- Peer-to-Peer Overlay Network Based on Swarm Intelligence -- 3: Software-Engineering and Architectures -- Agent Architectures for Compliance -- Incorporating BDI Agents into Human-Agent Decision Making Research -- Programming Organization-Aware Agents -- Energy Trade-Offs in Resource-Constrained Multi-Agent Systems -- 4: Social Aspects of Agent Societies -- Engineering Social Reality with Inheritance Relations -- Determining the Trustworthiness of New Electronic Contracts -- Trust Based Evaluation of Wikipedia's Contributors -- Evolutionary Role Model for Multi-Agent Systems -- 5: Organisation and Autonomy -- Replication Based on Role Concept for Multi-Agent Systems -- Knowledge Management in Role Based Agents -- Balancing Organizational Regulation and Agent Autonomy: An MDE-Based Approach -- Cooperative Sign Language Tutoring: A Multiagent Approach -- Assistance Layer in a P2P Scenario -- Navigational Web-Interfaces from Formal Tropos Specification -- 6: Demonstrations -- ALIVE: A Framework for Flexible and Adaptive Service Coordination -- An Organisational Adaptation Simulator for P2P Networks -- PreSage-MS: Metric Spaces in PreSage -- Normative Multi-Agent Organizations -- Hybrid Teams in Virtual Environments: Samurai Joins the Training Team -- Joint Activity Testbed: Blocks World for Teams (BW4T).

This book constitutes the refereed proceedings of the 10th International Workshop on Engineering Societies in the Agents World, ESAW 2009, held in Utrecht, The Netherlands, in November 2009. The 13 revised full papers and 5 short contributions presented together with two invited talks were carefully selected from 31 submissions. The papers are organized in topical sections on self-organization, software-engineering and architectures, social aspects of agent societies, organization and autonomy. This proceedings concludes with the extended abstracts of 6 contributions to a demonstration session on agent-based technologies and works.