1. Record Nr. UNINA9910299723103321

Titolo	Topology optimization in structural and continuum mechanics / / George I.N. Rozvany, Tomasz Lewinski, editors
Pubbl/distr/stampa	Wien [Vienna] : , : Springer, , 2014
ISBN	3-7091-1643-0
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (471 pages) : illustrations (some color)
Collana	CISM International Centre for Mechanical Sciences, Courses and Lectures, , 0254-1971 ; ; 549
Disciplina	624.17713
Soggetti	Topology Continuum mechanics Structural analysis (Engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 0254-1971."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	From the Contents: Structural topology optimization -- On basic properties of Michell's structures -- Validation of numerical method by analytical benchmarks and verification of exact solutions by numerical methods.
Sommario/riassunto	The book covers new developments in structural topology optimization. Basic features and limitations of Michell’s truss theory, its extension to a broader class of support conditions, generalizations of truss topology optimization, and Michell continua are reviewed. For elastic bodies, the layout problems in linear elasticity are discussed and the method of relaxation by homogenization is outlined. The classical problem of free material design is shown to be reducible to a locking material problem, even in the multiload case. For structures subjected to dynamic loads, it is explained how they can be designed so that the structural eigenfrequencies of vibration are as far away as possible from a prescribed external excitation frequency (or a band of excitation frequencies) in order to avoid resonance phenomena with high vibration and noise levels. For diffusive and convective transport processes and multiphysics problems, applications of the density method are discussed. In order to take uncertainty in material parameters, geometry, and operating conditions into account, techniques of reliability-based design optimization are introduced and

		reviewed for their applicability to topology optimization.

2.	Record Nr.	UNINA9910483958803321
	Titolo	Agent-Oriented Software Engineering VI : 6th International Workshop, AOSE 2005, Utrecht, The Netherlands, July 25, 2005. Revised and Invited Papers / / edited by Jörg Müller, Franco Zambonelli
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006
	ISBN	3-540-34099-8
	Edizione	[1st ed. 2006.]
	Descrizione fisica	1 online resource (XVI, 249 p.)
	Collana	Programming and Software Engineering, , 2945-9168 ; ; 3950
	Altri autori (Persone)	MullerJ. P <1965-> (Jorg P.) ZambonelliFranco <1966->
	Disciplina	005.1
	Soggetti	Software engineering Artificial intelligence Computer science Computer programming Computer networks Software Engineering Artificial Intelligence Computer Science Logic and Foundations of Programming Programming Techniques Computer Communication Networks
	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	Modeling Tools -- Operational Modelling of Agent Autonomy: Theoretical Aspects and a Formal Language -- Hermes: Designing Goal-Oriented Agent Interactions -- Modeling Social Aspects of Multi-Agent Systems: The AML Approach -- Analysis and Validation Tools -- Requirements Elicitation for Agent-Based Applications -- Formalisation and Analysis of the Temporal Dynamics of Conditioning -- Incorporating Commitment Protocols into Tropos -- Multiagent

Systems Design -- Zooming Multi-Agent Systems -- Improving AOSE with an Enriched Modelling Framework -- Dealing with Adaptive Multi-agent Organizations in the Gaia Methodology -- Implementing Validated Agents Behaviours with Automata Based on Goal Decomposition Trees -- Implementation Tools -- Dynamically Generated User-Specified MAS -- Supporting the Development of Multi-agent Interactions Via Roles -- Automating Model Transformations in Agent-Oriented Modelling -- Paving the Way for Implementing Multiagent Systems: Integrating Gaia with Agent-UML -- Applying Multi-agent Concepts to Dynamic Plug-In Architectures -- Experiences and Comparative Evaluations -- Using the Analytic Hierarchy Process for Evaluating Multi-Agent System Architecture Candidates -- Estimating Costs for Agent Oriented Software -- Aspects in Agent-Oriented Software Engineering: Lessons Learned.

Sommario/riassunto

Agent and multiagent concepts offer higher level abstractions and mechanisms which address issues such as knowledge representation and reasoning, communication, coordination, cooperation among heterogeneous and autonomous parties, perception, commitments, goals, beliefs, and intentions all of which need conceptual modeling. The AOSE 2005 workshop sought to examine the credentials of agent-based approaches as a software engineering paradigm, and to gain an insight into what agent-oriented software engineering will look like, and what its benefits will be. This book represents the thoroughly refereed post-proceedings of the 6th International Workshop on Agent-Oriented Software Engineering, AOSE 2005, held in Utrecht, The Netherlands, in July 2005 as part of AAMAS 2005. The 18 revised full papers were carefully selected from 35 submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on modeling tools, analysis and validation tools, multiagent systems design, implementation tools, and experiences and comparative evaluations.