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Titolo	Complex engineered systems : science meets technology / / Dan Braha, Ali A. Minai, Yaneer Bar-Yam (editors)
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer, , [2006] ©2006
ISBN	1-280-94930-9 9786610949304 3-540-32834-3
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (395 p.)
Collana	Understanding Complex Systems
Disciplina	620
Soggetti	Engineering systems Technological complexity Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	State of the art report.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Complex Engineered Systems: A New Paradigm -- Engineering Complex Systems: Multiscale Analysis and Evolutionary Engineering -- The Structure and Dynamics of Complex Product Design -- On the Nature of Design -- Creation of desirable complexity: strategies for designing selforganized systems -- Understanding the Complexity of Design -- Spiraling out of Control: Problem-Solving Dynamics in Complex Distributed Engineering Projects -- The Dynamics of Collaborative Design: Insights From Complex Systems and Negotiation Research -- Modularity in the Design of Complex Engineering Systems -- Engineering Complex Systems -- Negotiation algorithms for collaborative design settings -- Information Theory ? The Bridge Connecting Bounded Rational Game Theory and Statistical Physics -- Engineering Amorphous Systems, Using Global-to-Local Compilation -- A Machine Learning Method for Improving Task Allocation in Distributed Multi-Robot Transportation -- Towards Pro-active Embodied Agents: On the Importance of Neural Mechanisms Suitable to Process Time Information -- Autonomous Discovery and Functional Response to Topology Change in Self-Reconfigurable Robots.

Sommario/riassunto	Every time that we take money out of an ATM, surf the internet or simply turn on a light switch, we enjoy the benefits of complex engineered systems. Systems like power grids and global communication networks are so ubiquitous in our daily lives that we usually take them for granted, only noticing them when they break down. But how do such amazing technologies and infrastructures come to be what they are? How are these systems designed? How do distributed networks work? How are they made to respond rapidly in 'real time'? And as the demands that we place on these systems become increasingly complex, are traditional systems-engineering practices still relevant? This volume examines the difficulties that arise in creating highly complex engineered systems and new approaches that are being adopted. Topics addressed range from the formal representation and classification of distributed networked systems to revolutionary engineering practices inspired by biological evolution. By bringing together the latest research in Complex Engineered Systems, this book sheds light on the current state and future course of this emerging field.

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Autore	Sica, Salvatore
Titolo	Circolazione stradale e responsabilità : l'esperienza francese e italiana / Salvatore Sica
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ISBN	8871045483
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Collana	Pubblicazioni della Scuola di specializzazione in diritto civile dell'Università di Camerino ; 59
Disciplina	346.03
Lingua di pubblicazione	Italiano
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Livello bibliografico	Monografia