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Altri autori (Persone)	AiguierMarc
Disciplina	005.3
Soggetti	Engineering design Technological innovations Dynamics Nonlinear theories Engineering Design Innovation and Technology Management Applied Dynamical Systems
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Engineering Cyber-Physical Systems: Challenges and Foundations -- Game-Theoretical and Evolutionary Simulation: A Toolbox for Complex Enterprise Problems Architecting Complex Systems in new domains and problems: Making sense of complexity and managing its unintended consequences -- Agility Problems in Traditional Systems Engineering - A Case Study -- Modeling transportation systems: a case study with the open method Praxeme -- PBS : a major enabler for Systems Engineering - A thematic thinking by Thales Systèmes AéroportésFIT -- Requirement management for complex systems, a critical element of the integration process -- Modelling languages for Functional Analysis put to the test of real life Jean-Luc Voirin -- Modeling the impact of requirements change in the design of complex systems -- Model-Driven Development of Logistic Systems using Domain-Specific Tooling -- Smart Grid: Constructing a System of Systems Model Using Both

Qualitative and Quantitative Assessments -- Prototyping Systems
Thinking Curriculum Development for Pre-College Students -- An
Integrated Approach to Developing Automotive Climate Control
Systems -- Flexible Product Line Derivation applied to a Model Based
Systems Engineering proces -- Towards an Architectural Design
Framework for Automotive Systems Development -- Human emotional
interaction and hydrotherpy -- Industrial design keys Synchronisation
phenomena in electrical systems: emergent oscillation in a --
Orchestrating situation awareness and authority in complex socio-
technical systems -- A Collaborative Distributed Control and Building
Performance Simulation based on Systems Engineering Practice -- An
Organizing Taxonomy of Procedures to Design and Manage Complex
Systems for Uncertainty and Flexibility.

Sommario/riassunto

This book contains all refereed papers that were accepted to the third edition of the « Complex Systems Design & Management » (CSD&M 2012) international conference that took place in Paris (France) from December 12-14, 2012. (Website: <http://www.csdm2012.csdm.fr>) These proceedings cover the most recent trends in the emerging field of complex systems sciences & practices from an industrial and academic perspective, including the main industrial domains (transport, defense & security, electronics, energy & environment, e-services), scientific & technical topics (systems fundamentals, systems architecture& engineering, systems metrics & quality, systemic tools) and system types (transportation systems, embedded systems, software & information systems, systems of systems, artificial ecosystems). The CSD&M 2012 conference is organized under the guidance of the CESAMES non-profit organization (<http://www.cesames.net>).
