1. Record Nr. UNINA9910906197803321

Autore	Bylieva Daria
Titolo	Scenarios, Fictions, and Imagined Possibilities in Science, Engineering, and Education : XXIV Professional Culture of the Specialist of the Future, Volume 1 / / edited by Daria Bylieva, Alfred Nordmann
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-76797-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (369 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1203
Altri autori (Persone)	NordmannAlfred
Disciplina	620.00285
Soggetti	Engineering - Data processing Computers and civilization Computational intelligence Data Engineering Computers and Society Computational Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Artistic Creativity in View of the Philosophy of Technology -- Chapter 2. Traditional and Cognitiviste Views of Conceivability -- Chapter 3. Traditional and Cognitiviste Views of Conceivability -- Chapter 4. The Phygital World: The Role of Imagination in the Development of Artificial Intelligence -- Chapter 5. Scientific and Literary Speech - How Fiction can Shape the Worldview of Scientists -- Chapter 6. Scientific Fictions and Historical Reality -- Chapter 7. Thought Experiments: The Subjunctive Mood in History -- Chapter 8. Constructive and Predictive Capabilities of the Alternative History Genre -- Chapter 9. Multiplayer Online Games Become Reality: A New Literary Genre -- Chapter 10. Artificial Intelligence as a Creator of Over-Normative Reality -- Chapter 11. Nomadism and Reality - Two scenarios for their interrelation and development -- Chapter 12. Emotive Lexis and a Scholar’s Hypothetical Portrait.
Sommario/riassunto	This book presents the proceedings of the 24th International Conference Professional Culture of the Specialist of the Future. Professionals and experts in all fields need to be prepared to handle

	unfamiliar situations. Some of these are unexpected events that may occur quite suddenly out of the blue, and others may emerge in the course of technological development or predicted trends. In order to successfully confront the future, professionals therefore need to engage in hypothetical thinking as they entertain concrete scenarios or fictitious possibilities. Scientists and engineers lead the way when they employ thought experiments and systematically consider alternative realities. Educators come up with creative approaches to foster the “art of the as-if.” This highly interdisciplinary collection of 50 papers discusses the theoretical challenge of hypothetical thinking and presents practical strategies for its promotion.

2.	Record Nr.	UNINA9910484056803321
	Titolo	Graph transformations and model-driven engineering : essays dedicated to Manfred Nagl on the occasion of his 65th birthday / / Gregor Engels ... [et al.] (eds.)
	Pubbl/distr/stampa	Berlin ; ; New York, : Springer, 2010
	ISBN	1-280-39051-4 9786613568434 3-642-17322-5
	Edizione	[1st ed. 2010.]
	Descrizione fisica	1 online resource (XIV, 768 p. 328 illus.)
	Collana	Lecture notes in computer science ; ; 5765
	Altri autori (Persone)	EngelsG
	Disciplina	005.1028
	Soggetti	Model-driven software architecture Software architecture
	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	Graph Transformations and Model-Driven Engineering: The Merits of Manfred Nagl -- Graph Transformations and Model-Driven Engineering: The Merits of Manfred Nagl -- Graph Transformations: Theory and Applications -- The Edge of Graph Transformation — Graphs for Behavioural Specification -- Graph Transformation by Computational Category Theory -- On GS-Monoidal Theories for Graphs with Nesting -- Stochastic Modelling and Simulation of Mobile

Systems -- Autonomous Units and Their Semantics – The Concurrent Case -- Parallel Independence of Amalgamated Graph Transformations Applied to Model Transformation -- Extended Triple Graph Grammars with Efficient and Compatible Graph Translators -- Controlling Reuse in Pattern-Based Model-to-Model Transformations -- Lessons Learned from Building a Graph Transformation System -- Workflow-Driven Tool Integration Using Model Transformations -- Software Architectures and Reengineering -- The Architecture Description Language MoDeL -- Towards Managing Software Architectures with Ontologies -- Using Role-Play Diagrams to Improve Scenario Role-Play -- Reverse Engineering Using Graph Queries -- Graph-Based Structural Analysis for Telecommunication Systems -- Process Support -- Do We Really Know How to Support Processes? Considerations and Reconstruction -- A Meta-Method for Defining Software Engineering Methods -- Techniques for Merging Views of Software Processes -- Embedded Systems Engineering -- Model Checking Programmable Router Configurations -- Architectural Issues of Adaptive Pervasive Systems -- Using Graph Grammars for Modeling Wiring Harnesses – An Experience Report -- Model-Driven Development with Mechatronic UML -- Model Synchronization at Work: Keeping SysML and AUTOSAR Models Consistent -- Multi-view Modeling to Support Embedded Systems Engineering in SysML -- Engineering Design Applications -- Requirements Engineering in Complex Domains -- Tool Support for Dynamic Development Processes -- An Extensible Modeling Language for the Representation of Work Processes in the Chemical and Process Industries -- Integration Tools for Consistency Management between Design Documents in Development Processes -- Towards Semantic Navigation in Mobile Robotics -- Model Driven Engineering in Operative Industrial Process Control Environments.

Sommario/riassunto

Manfred Nagl has been a very active, productive researcher with great impact in a number of di'erent areas,e.g., graphtransformationsand their applications to a wide range of disciplines, software engineering environments, engineering designprocesses,andsoftwarearchitectures. We--?veofhisnumerousacademic descendants -- were in'uenced deeply by Manfred's work. For this reason, we decided to prepare this volume, which was edited in his honor on the occasion of his 65th birthday. A "pre-release"(book of abstracts) was presented to Manfred atacelebrationatRWTHAachenUniversityinJune2009.Thecompletevolume followed when Manfred received an honorary doctorate from the University of Paderborn in November 2010. Altogether, we collected 30 papers. The types of papers vary signi'cantly, including classic research papers in the style of journal articles, surveys of - cused research areas, essays re'ecting on certain research topics, and papers summarizing long-term work conducted by Manfred Nagl. All papers were subject to a thorough quality control process involving at least two reviews for each paper. The editors were assisted by numerous ad- tional reviewers, whose work is gratefully acknowledged.