

1. Record Nr.	UNINA9910452879003321
Autore	Torshin Ivan Yu
Titolo	Physiology and medicine [[electronic resource] /] / Ivan Yu. Torshin
Pubbl/distr/stampa	New York, : Nova Science Publishers, 2007
ISBN	1-62618-183-7
Descrizione fisica	1 online resource (318 p.)
Collana	Bioinformatics in the post-genomic era
Disciplina	572.80285
Soggetti	Bioinformatics Electronic books.
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	Systems within the systems within the systems -- Some basics of cardiovascular physiology, pathology and genetics -- Biomedical studies and studies of the studies -- MedSNP: a middle ground between physiology, genetics,g and medicine -- Analyses of the data consistency -- The functional genomics quest -- Molecular cascades and metabolic pathways -- Metabolome analyses and drug design.

2. Record Nr.	UNISA996464424603316
Autore	Böhm Wolfgang (Wolfgang J.)
Titolo	Model-Based Engineering of Collaborative Embedded Systems [[electronic resource]] : Extensions of the SPES Methodology // edited by Wolfgang Böhm, Manfred Broy, Cornel Klein, Klaus Pohl, Bernhard Rumpe, Sebastian Schröck
Pubbl/distr/stampa	Springer Nature, 2021 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-62136-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIII, 404 p. 148 illus., 83 illus. in color.)
Disciplina	005.1
Soggetti	Software engineering Management information systems Automotive engineering Special purpose computers Software Engineering Software Management Automotive Engineering Special Purpose and Application-Based Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Use Cases -- 2. Engineering of Collaborative Embedded Systems -- 3. Architectures for Flexible Collaborative Systems -- 4. Function Modeling for Collaborative Embedded Systems -- 5. Architectures for Dynamically Coupled Systems -- 6. Modeling and Analyzing Context- Sensitive Changes during Runtime -- 7. Handling Uncertainty in Collaborative Embedded Systems Engineering -- 8. Dynamic Safety Certification for Collaborative Embedded Systems at Runtime -- 9. Goal-Based Strategy Exploration -- 10. Creating Trust in Collaborative Embedded Systems -- 11. Language Engineering for Heterogeneous Collaborative Embedded Systems -- 12. Development and Evaluation of Collaborative Systems using Simulation -- 13. Tool Support for Co- Simulation-Based Analysis -- 14. Supporting the Creation of Digital

Twins for CESs -- 15. Online Experiment-Driven Learning and Adaption -- 16. Compositional Verification using Model Checking and Theorem Proving -- 17. Artifact-Based Analysis for the Development of Collaborative Embedded Systems -- 18. Variant and Product Line Co-Evolution -- 19. Advanced Systems Engineering.

Sommario/riassunto

This Open Access book presents the results of the "Collaborative Embedded Systems" (CrESt) project, aimed at adapting and complementing the methodology underlying modeling techniques developed to cope with the challenges of the dynamic structures of collaborative embedded systems (CESs) based on the SPES development methodology. In order to manage the high complexity of the individual systems and the dynamically formed interaction structures at runtime, advanced and powerful development methods are required that extend the current state of the art in the development of embedded systems and cyber-physical systems. The methodological contributions of the project support the effective and efficient development of CESs in dynamic and uncertain contexts, with special emphasis on the reliability and variability of individual systems and the creation of networks of such systems at runtime. The project was funded by the German Federal Ministry of Education and Research (BMBF), and the case studies are therefore selected from areas that are highly relevant for Germany's economy (automotive, industrial production, power generation, and robotics). It also supports the digitalization of complex and transformable industrial plants in the context of the German government's "Industry 4.0" initiative, and the project results provide a solid foundation for implementing the German government's high-tech strategy "Innovations for Germany" in the coming years.
