

1. Record Nr.	UNINA9910983297503321
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Titolo	Leveraging Applications of Formal Methods, Verification and Validation. Application Areas : 12th International Symposium, ISoLA 2024, Crete, Greece, October 27–31, 2024, Proceedings, Part V // edited by Tiziana Margaria, Bernhard Steffen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-75390-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (219 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15223
Altri autori (Persone)	SteffenBernhard
Disciplina	005.1
Soggetti	Software engineering Machine theory Computer science Computers, Special purpose Computer systems Microprogramming Software Engineering Formal Languages and Automata Theory Computer Science Logic and Foundations of Programming Special Purpose and Application-Based Systems Computer System Implementation Control Structures and Microprogramming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Digital Twin Engineering (Track Introduction ISoLA 2024) -- Foundation Models for the Digital Twins Creation of Cyber-Physical Systems -- Interoperability of Digital Twins: Challenges, Success Factors, and Future Research Directions -- Monitoring Reconfigurable Simulation Scenarios in Co-simulated Digital Twins -- DiTEC: Digital Twin for Evolutionary Changes in Water Distribution Networks -- Small Scale, Big Impact: Experiences from a Miniature ViL Testbed and Digital Twin Development -- Formal methods for distributed computing in future railway systems -- Model-based Testing of Railway Interlocking

Systems -- Formal Verification of Railway Interlockings: a Compositional Approach Based on a Library of Pre-Verified Components -- Formal Validation and ERTMS Simulation -- Securing automatic small railway vehicles using Automatic Train Protection -- Railway Switch Control Modeling in European Train Control System Level 3 -- An Integrated Perspective on the Evaluation of Complex Railway Systems.

Sommario/riassunto

The ISoLA 2024 proceedings constitutes contributions of the associated events held at the 12th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2024, which took place in Crete, Greece, in October 2024. ISoLA 2024 provides a forum for developers, users, and researchers to discuss issues related to the adoption and use of rigorous tools and methods for the specification, analysis, verification, certification, construction, test, and maintenance of systems from the point of view of their different application domains.
