1.	Record Nr.	UNISA996517752003316
	Titolo	Structured Object-Oriented Formal Language and Method : 11th International Workshop, SOFL+MSVL 2022, Madrid, Spain, October 24, 2022, Revised Selected Papers / / Shaoying Liu, Zhenhua Duan, and Ai Liu, editors
	Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2023] ©2023
	ISBN	9783031294761 9783031294754
	Edizione	[First edition.]
	Descrizione fisica	1 online resource (155 pages)
	Collana	Lecture Notes in Computer Science Series ; ; Volume 13854
	Disciplina	004.0151
	Soggetti	Formal methods (Computer science) Object-oriented methods (Computer science)
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Model Checking & Markov Decision Process -- Formal Derivation and Verification of Critical Path Algorithm for Directed Acyclic Graph -- An Approach of Transforming Non-Markovian Reward to Markovian Reward -- A JPSL based Model Checking Approach for Java Programs -- Model Analysis & Tool Implementation -- Implementation of Matlab matfun Toolkit Based on MSVL -- Extending Visibly Pushdown Automata over Multi-matching Nested Relations -- Schedulability analysis of rate-monotonic algorithm on concurrent execution of digraph real-time tasks -- Formal Specification & Testing -- Formalization of natural language into PPTL specification via neural machine translation -- Testing Program Segments to Detect Runtime Exceptions in Java -- Inferring Exact Domains to Efficiently Generate Valid Test Cases via Testing -- Algorithms & Verification -- Testing and Verifying the security of COVID-19 CT Images Deep Learning System with Adversarial Attack -- Verifying and improving neural networks using testing-based formal verification -- Alternating Projection Temporal Epistemic Logic.
	Sommario/riassunto	This book constitutes the refereed workshop proceedings of the 11th

International Workshop on Structured Object-Oriented Formal Language and Method, SOFL+MSVL 2022, held in Madrid, in October 2022. The 12 revised full papers included in the volume were carefully reviewed and selected from 26 submissions. They are organized in the following topical sections: Model Checking & Markov Decision Process; Model Analysis & Tool Implementation; Formal Specification & Testing; Algorithms & Verification. .