

1. Record Nr.	UNISA996534464403316
Titolo	Application and Theory of Petri Nets and Concurrency [[electronic resource]] : 44th International Conference, PETRI NETS 2023, Lisbon, Portugal, June 25–30, 2023, Proceedings / / edited by Luis Gomes, Robert Lorenz
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-33620-8
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (470 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 13929
Disciplina	410.5
Soggetti	Embedded computer systems Computer science—Mathematics Computer networks Software engineering Embedded Systems Mathematics of Computing Computer Communication Networks Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- From Process-Agnostic to Process-Aware Automation, Mining, and Prediction -- Formal Modelling, Analysis, and Synthesis of Modular Industrial Systems inspired by Net Condition/Event Systems -- Process Mining -- There and Back Again: On the Reconstructability and Rediscoverability of Typed Jackson Nets -- ILP ² Miner – Process Discovery for Partially Ordered Event Logs using Integer Linear Programming -- Modelling Data-Aware Stochastic Processes - Discovery and Conformance Checking -- Exact and Approximated Log Alignments for Processes with Inter-case Dependencies -- Semantics -- Taking Complete Finite Prefixes To High Level, Symbolically -- Interval Traces with Mutex Relation -- A Myhill-Nerode Theorem for Higher-Dimensional Automata -- Tools. -Hippo-CPS: A Tool for Verification and Analysis of Petri Net-based Cyber-Physical Systems -- Mochy : a tool for the modeling of concurrent hybrid systems.-Renew:

Modularized Architecture and New Features -- Explorative Process Discovery using Activity Projections.-Verification. -Computing Under-approximations of Multivalued Decision Diagram.-Stochastic Decision Petri Nets -- Token Trail Semantics – Modeling Behavior of Petri Nets with Labeled Petri Nets -- On the Reversibility of Circular Conservative Petri Nets -- Automated Polyhedral Abstraction Proving. - Experimenting with Stubborn Sets on Petri Nets -- Timed Models -- Symbolic Analysis and Parameter Synthesis for Time Petri Nets Using Maude and SMT Solving. -A state class based controller synthesis approach for Time Petri Nets -- Model Transformation -- Transforming Dynamic Condition Response Graphs to safe Petri Nets -- Enriching Heraklit Modules by Agent Interaction Diagrams.

Sommario/riassunto

This book constitutes the proceedings of the 44th International Conference on Application and Theory of Petri Nets and Concurrency, PETRI NETS 2023, which took place in Lisbon, Portugal, in June 2023. The 21 full papers included in this book were carefully reviewed and selected from 47 submissions. They were organized in topical sections as follows: Process mining; semantics; tools; verification; timed models; model transformation. The book also includes two invited talks in full paper length. .
