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Titolo	Towards a New Economic Order : Postfordism, Ecology and Democracy / Alan Lipietz ; Translated by Malcom Slater
Pubbl/distr/stampa	Cambridge : Polity Press, 1992
ISBN	0-7456-0866-3
Descrizione fisica	XIV, 206 p. ; 23 cm
Collana	Europe and the International Order
Disciplina	H/0.2 M/1
Locazione	SES
Collocazione	C/1 LIP
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	[Trad. di: Choisir L'Audace, c1989]

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Autore	Best Eike
Titolo	Petri Net Primer : A Compendium on the Core Model, Analysis, and Synthesis / / by Eike Best, Raymond Devillers
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Birkhäuser, , 2024
ISBN	3-031-48278-6
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (548 pages)
Collana	Computer Science Foundations and Applied Logic, , 2731-5762
Altri autori (Persone)	DevillersRaymond
Disciplina	004.0151
Soggetti	Computer science - Mathematics Discrete mathematics Dynamics Mathematical models Stochastic models Discrete Mathematics in Computer Science Dynamical Systems Mathematical Modeling and Industrial Mathematics Stochastic Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- 1 First Steps in Petri Nets -- 2 Languages of Petri Nets -- 3 Reachability and Coverability -- 4 Linear-algebraic Structure of Petri Nets -- 5 Graph-theoretical Structure of Petri Nets -- 6 More Structure Theory -- 7 Program Verification Using Traps -- 8 Fairness, Simulations, and Inhibitor Arcs -- 9 Unfoldings and Reachability Checking -- 10 Petri Net Computers -- 11 Synthesis of Petri Nets from Labelled Transition Systems -- 12 Persistent Transition Systems and Choice-free Petri Nets -- 13 Divide-and-Conquer Methods for Synthesis -- 14 Marked Graph Synthesis -- 15 Bounded Choice-free Net Synthesis -- 16 Model Checking Safe, Strongly Persistent Petri Nets -- 17 Semilinearity -- 18 Decidability of the reachability problem -- 19 The Box Algebra 1/2: Refinement and Recursion -- 20 The Box Algebra 2/2: Iteration and Data -- 21 High-level Petri Nets -- Biblyography -- Index.

Sommario/riassunto

Petri nets model concurrent and distributed systems where active components communicate through the production and absorption of various kinds of resources. Although the dynamic properties of such systems may be very complex, they may sometimes be connected to the static structure of a Petri net. Many properties are decidable, but their complexity may be huge. It is often opportune to restrict oneself to classes of systems, to partial algorithms, and to similar but simpler properties. Instead of analysing a given system, it is also possible to search for a system satisfying some desired properties by construction. This comprehensive textbook/reference presents and discusses these issues in-depth in the context of one of the most fundamental Petri net models, called place/transition nets. The presentation is fortified by means of many examples and worked exercises. Among topics addressed: • In which order may actions may be generated and scheduled? • What states and configurations may be reached in a concurrent system? • Which interesting classes of systems can be analysed relatively efficiently? • Is it possible to synthesise a system of some class from its behaviour? • How can systems be represented algebraically, compositionally, and concisely? This unique text, based on introductory as well as on advanced courses on distributed systems, will serve as an invaluable guide for students and (future) researchers interested in theoretical—as well as in practical—aspects of Petri nets and related system models. Eike Best has been a full professor (now retired) affiliated to Carl von Ossietzky Universität Oldenburg, Germany. Raymond Devillers has been a full professor (now retired) affiliated to Université Libre de Bruxelles, Belgium. The authors have a long record as collaborators in the fields of Petri nets and the semantics of concurrency.