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Disciplina	004.24015115
Soggetti	Mathematical logic Software engineering Machine theory Computer networks Computer science - Mathematics Discrete mathematics Business information services Mathematical Logic and Foundations Software Engineering Formal Languages and Automata Theory Computer Communication Networks Discrete Mathematics in Computer Science IT in Business
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Papers -- Kronecker Algebra and (Stochastic) Petri Nets: Is It Worth the Effort? -- The Flux of Interaction -- Towards a Notion of Distributed Time for Petri Nets -- Full Papers -- Identifying Commonalities and Differences in Object Life Cycles Using Behavioral Inheritance -- Timed Petri Nets and BQOs -- CPN/Tools: A Post-WIMP Interface for Editing and Simulating Coloured Petri Nets -- Petri Net Based Design and Implementation Methodology for Discrete Event

Control Systems -- Condensed State Spaces for Timed Petri Nets --  
Unfolding of Products of Symmetrical Petri Nets -- partial Order  
Verification of Programmable Logic Controllers -- Structural  
Characterization and Qualitative Properties of Product Form Stochastic  
Petri Nets -- Generalized Conditions for Liveness Enforcement and  
Deadlock Prevention in Petri Nets -- A Concurrent Semantics of Static  
Exceptions in a Parallel Programming Language -- A Concurrent  
Semantics of Static Exceptions in a Parallel Programming Language --  
Modelling the Structure and Behaviour of Petri Net Agents -- Modelling  
the Structure and Behaviour of Petri Net Agents -- Model Checking LTL  
Properties of High-Level Petri Nets with Fairness Constraints -- Model  
Checking LTL Properties of High-Level Petri Nets with Fairness  
Constraints -- Incremental State Space Construction for Coloured Petri  
Nets -- Incremental State Space Construction for Coloured Petri Nets --  
Optimising Enabling Tests and Unfoldings of Algebraic System Nets --  
Optimising Enabling Tests and Unfoldings of Algebraic System Nets --  
Extending the Petri Box Calculus with Time -- Extending the Petri Box  
Calculus with Time -- Abstractions and Partial Order Reductions for  
Checking Branching Properties of Time Petri Nets -- Abstractions and  
Partial Order Reductions for Checking Branching Properties of Time  
Petri Nets -- Pr/T-Net Based Seamless Design of Embedded Real-Time  
Systems -- Pr/T-Net Based Seamless Design of Embedded Real-Time  
Systems -- Rewriting Logic and Elan: Prototyping Tools for Petri Nets  
with Time -- Rewriting Logic and Elan: Prototyping Tools for Petri Nets  
with Time -- Partial S-Invariants for the Verification of Infinite Systems  
Families -- Partial S-Invariants for the Verification of Infinite Systems  
Families.

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## Sommario/riassunto

This volume contains the proceedings of the 22nd International Conference on Application and Theory of Petri Nets. The aim of the Petri net conferences is to create a forum for discussing progress in the application and theory of Petri nets. Typically, the conferences have 100{150 participants { one third of these coming from industry while the rest are from universities and research institutions. The conferences always take place in the last week of June. This year the conference was organized jointly with the 2nd International Conference on Application of Concurrency to System Design (ICACSD 2001). The two conferences shared the invited lectures and the social program. The conference and a number of other activities are co-ordinated by a steering committee with the following members: G. Balbo (Italy), J. Billington (Australia), G. De Michelis (Italy), C. Girault (France), K. Jensen (Denmark), S. - magai (Japan), T. Murata (USA), C.A. Petri (Germany; honorary member), W. Reisig (Germany), G. Rozenberg (The Netherlands; chairman), and M. Silva (Spain). Other activities before and during the 2001 conference included tool dem- strations, a meeting on \XML Based Interchange Formats for Petri Nets", - tensive introductory tutorials, two advanced tutorials on \Probabilistic Methods in Concurrency" and \Model Checking", and two workshops on \Synthesis of Concurrent Systems" and \Concurrency in Dependable Computing". The tu- rial notes and workshop proceedings are not published in these proceedings, but copies are available from the organizers.

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