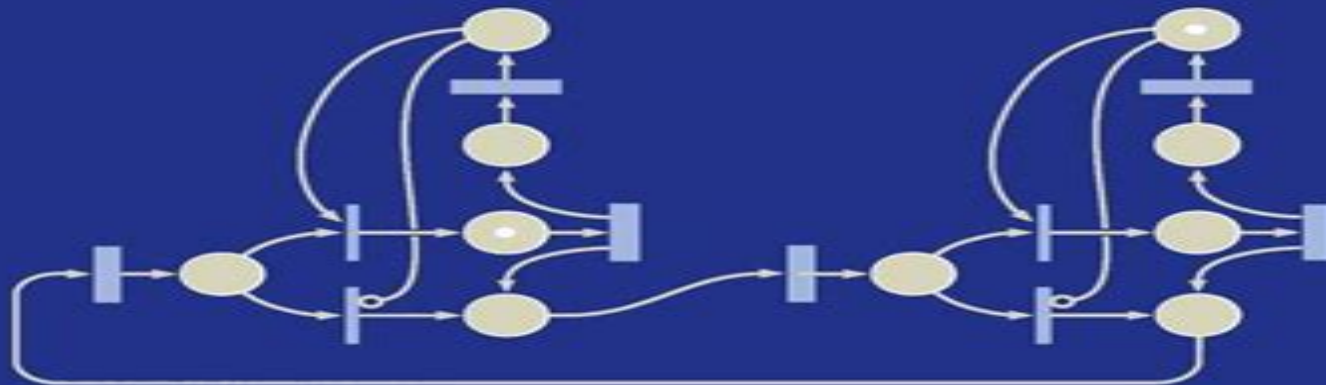


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Stochastic Petri Nets

**Samir Tigane, Laid Kahloul, Abdelhamid
Mellouk**



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Modelling with Generalized Stochastic Petri Nets M. Ajmone Marsan, 1995-12-12 World renowned leaders in the field provide an accessible introduction to the use of Generalized Stochastic Petri Nets GSPNs for the performance analysis of diverse distributed systems Divided into two parts it begins with a summary of the major results in GSPN theory The second section is devoted entirely to application examples which demonstrate how GSPN methodology can be used in different arenas A simple version of the software tool used to analyse GSPN models is included with the book and a concise manual for its use is presented in the later chapters

Stochastic Petri Nets Falko Bause, Pieter S. Kritzinger, 1996 Any engineer who is responsible for the design and development of discrete systems such as embedded software for control or telecommunication systems knows that the most important quality of the final product is that it be functionally correct Once assured that the system behaves correctly it is also important that it be efficient in that its running cost is minimal or is optimum in whatever quantitative measure is chosen Stochastic Petri nets have been developed over the last decade with exactly these objectives in mind This book is an introduction to Stochastic Petri nets and arose out of a desire by the authors to collect all one needs to understand Stochastic Petri net theory in one volume The intention of this book is not to give an overview of several or all Stochastic Petri net models appearing in the literature but to stress a combined view of functional and performance analysis in the context of some Stochastic Petri net models The book contains a reference to several Stochastic Petri net tools which are available to help the reader apply the theory contained in this volume

USP F r sicher funktionierende DV Systeme Stochastic Petri Nets Peter J. Haas, 2006-04-10 Written by a leading researcher this book presents an introduction to Stochastic Petri Nets covering the modeling power of the proposed SPN model the stability conditions and the simulation methods Its unique and well written approach provides a timely and important addition to the literature Appeals to a wide range of researchers in engineering computer science mathematics and OR

Modelling with Generalized Stochastic Petri Nets Marco Ajmone Marsan, 2002 Stochastic Petri Nets for Wireless Networks Lei Lei, Chuang Lin, Zhangdui Zhong, 2015-04-08 This SpringerBrief presents research in the application of Stochastic Petri Nets SPN to the performance evaluation of wireless networks under bursty traffic It covers typical Quality of Service performance metrics such as mean throughput average delay and packet dropping probability Along with an introduction of SPN basics the authors introduce the key motivation and challenges of using SPN to analyze the resource sharing performance in wireless networks The authors explain two powerful modeling techniques that treat the well known state space explosion problem model decomposition and iteration and model aggregation using stochastic high level petri nets The first technique assists in performance analysis of opportunistic scheduling Device to Device communications with full frequency reuse and partial frequency reuse The second technique is used to formulate a wireless channel mode for cross layer performance analysis in OFDM system Stochastic Petri Nets for Wireless Networks reveals useful insights for the design of radio resource

management algorithms and a new line of thinking for the performance evaluation of future wireless networks This material is valuable as a reference for researchers and professionals working in wireless networks and for advanced level students studying wireless technologies in electrical engineering or computer science Stochastic Petri Nets Peter J. Haas,2004 Stochastic Petri nets have proven to be a useful tool for modelling and performance analysis of complex discrete event stochastic systems such as those in telecommunications manufacturing transportation This monograph centres on techniques for the modelling and computer simulation of such systems **Timed Petri Nets** Jiacun Wang,2012-12-06 Driven by the request for increased productivity flexibility and competitiveness modern civilization increasingly has created high performance discrete event dynamic systems DEDSs These systems exhibit concurrent sequential competitive activities among their components They are often complex and large in scale and necessarily flexible and thus highly capital intensive Examples of systems are manufacturing systems communication networks traffic and logistic systems and military command and control systems Modeling and performance evaluation play a vital role in the design and operation of such high performance DEDSs and thus have received widespread attention from researchers over the past two decades One methodology resulting from this effort is based on timed Petri nets and related graphical and mathematical tools The popularity that Petri nets have been gaining in modeling of DEDSs is due to their powerful representational ability of concurrency and synchronization however these properties of DEDSs cannot be expressed easily in traditional formalisms developed for analysis of classical systems with sequential behaviors This book introduces the theories and applications of timed Petri nets systematically Moreover it also presents many practical applications in addition to theoretical developments together with the latest research results and industrial applications of timed Petri nets Timed Petri Nets Theory and Application is intended for use by researchers and practitioners in the area of Discrete Event Dynamic Systems

Enhancing Stochastic Petri Nets with Reconfigurability Samir Tigane,Laid Kahloul,Abdelhamid Mellouk,2025-06-17 This book explores the world of reconfigurable stochastic Petri nets RSPNs a powerful method for modeling and verifying complex dynamic and reconfigurable systems As modern discrete event systems become increasingly flexible requiring structural adaptability at runtime classical Petri nets are proving insufficient This book presents innovative extensions to Petri nets offering enhanced modeling capabilities for reconfigurable systems while ensuring efficient verification Through a structured approach this book introduces reconfigurable generalized stochastic Petri nets RecGSPNs an advanced framework that integrates reconfigurability while preserving crucial system properties such as liveness boundedness and deadlock freedom This book systematically explores modeling techniques including stochastic reward nets and dynamic topology transformations demonstrating their effectiveness through quantitative and qualitative analyses By addressing challenges in state space explosion and computational complexity this book provides essential methodologies for researchers and practitioners working on reconfigurable systems and serves as a valuable resource for those working in network security

manufacturing systems and distributed computing where dynamic reconfigurations are essential **Stochastic Petri Nets**
Gérard FLORIN,1991 *Discrete Deterministic and Stochastic Petri Nets* National Aeronautics and Space Administration
(NASA),2018-07-02 Petri nets augmented with timing specifications gained a wide acceptance in the area of performance and
reliability evaluation of complex systems exhibiting concurrency synchronization and conflicts The state space of time
extended Petri nets is mapped onto its basic underlying stochastic process which can be shown to be Markovian under the
assumption of exponentially distributed firing times The integration of exponentially and non exponentially distributed timing
is still one of the major problems for the analysis and was first attacked for continuous time Petri nets at the cost of
structural or analytical restrictions We propose a discrete deterministic and stochastic Petri net DDSPN formalism with no
imposed structural or analytical restrictions where transitions can fire either in zero time or according to arbitrary firing
times that can be represented as the time to absorption in a finite absorbing discrete time Markov chain DTMC Exponentially
distributed firing times are then approximated arbitrarily well by geometric distributions Deterministic firing times are a
special case of the geometric distribution The underlying stochastic process of a DDSPN is then also a DTMC from which the
transient and stationary solution can be obtained by standard techniques A comprehensive algorithm and some state space
reduction techniques for the analysis of DDSPNs are presented comprising the automatic detection of conflicts and
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