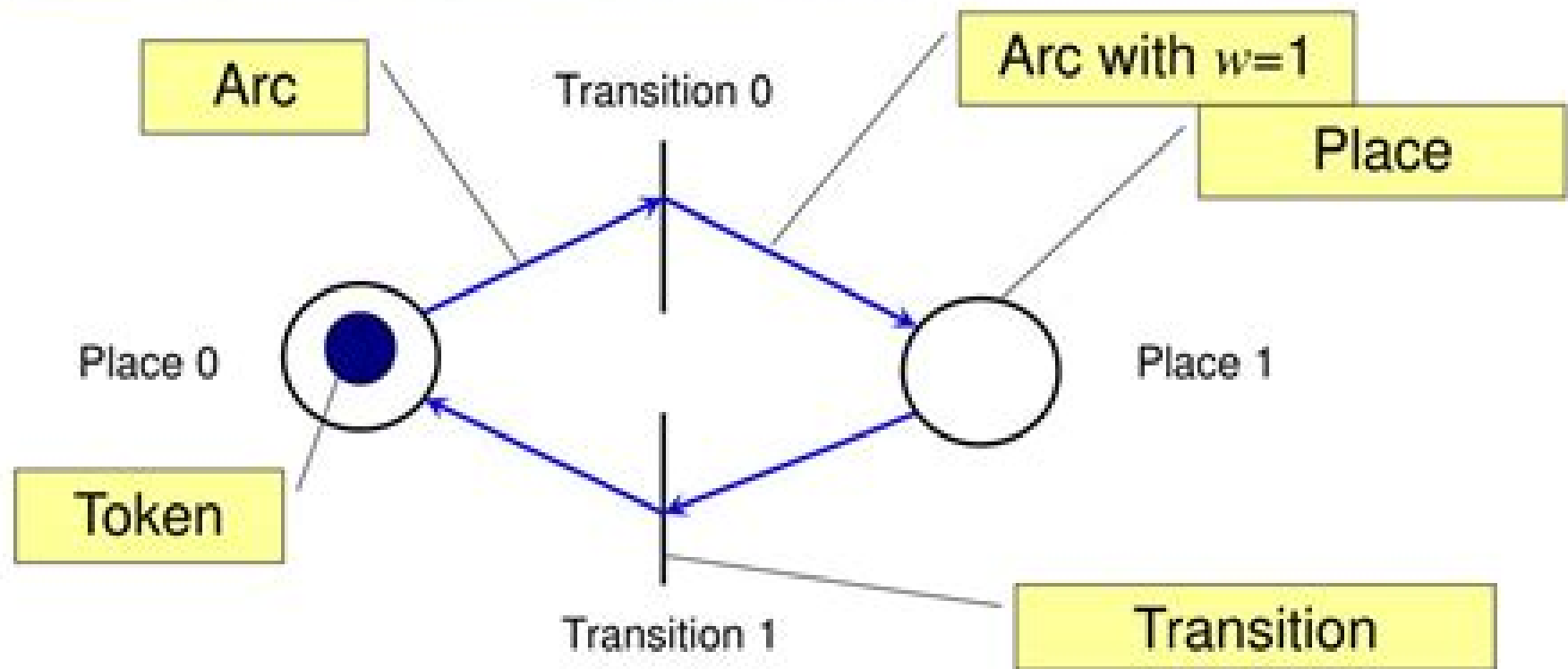


# Petri Net Example



- $I(t_j) = \{p_i \in P : (p_i, t_j) \in A\}$
- $O(t_j) = \{p_i \in P : (t_j, p_i) \in A\}$

- $I(p_i) = \{t_j \in T : (t_j, p_i) \in A\}$
- $O(p_i) = \{t_j \in T : (p_i, t_j) \in A\}$

# Petri Net Algebra

**Zhiming Liu**



## **Petri Net Algebra:**

*Petri Net Algebra* Eike Best, Raymond Devillers, Maciej Koutny, 2001-01-26 In modern society services and support provided by computer based systems have become ubiquitous and indeed have started to fundamentally alter the way people conduct their business. Moreover it has become apparent that among the great variety of computer technologies available to potential users a crucial role will be played by concurrent systems. The reason is that many commonly occurring phenomena and computer applications are highly concurrent. Typical examples include control systems, computer networks, digital hardware, business computing and multimedia systems. Such systems are characterised by ever increasing complexity which results when large numbers of concurrently active components interact. This has been recognised and addressed within the computing science community. In particular several formal models of concurrent systems have been proposed, studied and applied in practice. This book brings together two of the most widely used formalisms for describing and analysing concurrent systems: Petri nets and process algebras. On the one hand process algebras allow one to specify and reason about the design of complex concurrent computing systems by means of algebraic operators corresponding to common programming constructs. Petri nets on the other hand provide a graphical representation of such systems and an additional means of verifying their correctness efficiently as well as a way of expressing properties related to causality and concurrency in system behaviour.

**Lectures on Concurrency and Petri Nets** Jörg Desel, Wolfgang Reisig, Grzegorz Rozenberg, 2004-07-09 This tutorial volume originates from the 4th Advanced Course on Petri Nets ACPN 2003 held in Eichstätt, Germany in September 2003. In addition to lectures given at ACPN 2003 additional chapters have been commissioned to give a well balanced presentation of the state of the art in the area. This book will be useful as both a reference for those working in the area as well as a study book for the reader who is interested in an up to date overview of research and development in concurrent and distributed systems. Of course readers specifically interested in theoretical or applicational aspects of Petri nets will appreciate the book as well.

*Property-preserving Petri Net Process Algebra in Software Engineering* Hejiao Huang, 2012 Annotation In a component based approach for system design one of the difficult problems is how to prove the correctness of the created components. This volume presents a component based methodology for the creation and verification of design specifications.

**Mathematical Foundations of Computer Science 1988**

Michal Chytil, Ladislav Janiga, Václav Koubek, 1988 This volume contains 11 invited lectures and 42 communications presented at the 13th Conference on Mathematical Foundations of Computer Science MFCS 88 held at Carlsbad, Czechoslovakia, August 29 - September 2, 1988. Most of the papers present material from the following four fields: complexity theory, in particular structural complexity; concurrency and parallelism; formal language theory; semantics. Other areas treated in the proceedings include functional programming, inductive syntactical synthesis, unification algorithms, relational databases and incremental attribute evaluation.

**Algebraic Methodology and Software Technology** Helene Kirchner, Christophe

Ringeissen,2003-08-02 This volume contains the proceedings of AMAST 2002 the 9th International Conference on Algebraic Methodology and Software Technology held during September 9 13 2002 in Saint Gilles les Bains Reunion Island France The major goal of the AMAST conferences is to promote research that may lead to setting software technology on a firm mathematical basis This goal is achieved through a large international cooperation with contributions from both academia and industry Developing a software technology on a mathematical basis produces software that is a correct and the correctness can be proved mathematically b safe so that it can be used in the implementation of critical systems c portable i e independent of computing platforms and language generations d evolutionary i e it is self adaptable and evolves with the problem domain All previous AMAST conferences which were held in Iowa City 1989 1991 Twente 1993 Montreal 1995 Munich 1996 Sydney 1997 Manaus 1999 and Iowa City 2000 made contributions to the AMAST goals by reporting and disseminating academic and industrial achievements within the AMAST area of interest During these meetings AMAST attracted an international following among researchers and practitioners interested in software technology programming methodology and their algebraic and logical foundations      **Integrated Formal Methods** Wolfgang Grieskamp,Thomas Santen,Bill Stoddart,2000 This book constitutes the refereed proceedings of the Second International Conference on Integrated Formal Methods IFM 2000 held in Dagstuhl Germany in November 2000 The 22 revised full papers presented together with the abstracts of two invited talks were carefully reviewed and selected from 58 submissions The papers are grouped together in topical sections on linking and extending notations methodology foundation of one formalism by another semantics and verification and validation      **Theoretical Aspects of Computing - ICTAC 2004** Zhiming Liu,2005-03-08 This book constitutes the thoroughly refereed postproceedings of the First International Colloquium on Theoretical Aspects of Computing ICTAC 2004 The 34 revised full papers presented together with 4 invited contributions were carefully selected from 111 submissions during two rounds of reviewing and improvement The papers are organized in topical sections on concurrent and distributed systems model integration and theory unification program reasoning and testing verification theories of programming and programming languages real time and co design and automata theory and logics      *Petri Net Newsletter* ,1990      **Mathematical Foundations of Computer Science, 1978** Józef Winkowski,1978      Mathematical Foundations of Computer Science ,1978      **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen** ,1996      **Advances in Petri Nets** ,1992      Materials, Mechatronics and Automation Dehuai Zeng,2011-02-21 Selected peer reviewed papers from the 2011 International Conference on Materials Mechatronics and Automation ICMMA 2011 On 15 16 January 2011 Australia Melbourne      *Algebraic Methodology and Software Technology* ,2002      **Automata, Languages, and Programming** ,2005      Unifying Petri Nets Hartmut Ehrig,2001-12-14 Since their introduction nearly 40 years ago research on Petri nets has diverged in many different directions Various classes of Petri net motivated either by theory or applications with its own

specific features and methods of analysis have been proposed and studies in depth These successful developments have led to a very heterogeneous landscape of diverse models and this in turn has stimulated research on concepts and approaches that contribute to unifying and structuring the diverse landscape This state of the art survey presents the most relevant approaches to unifying Petri nets in a systematic and coherent way The 14 chapters written by leading researchers are organized in topical sections on application oriented approaches unifying frameworks and theoretical approaches IEEE Intelligent Vehicles Symposium ,2005 Annales Societatis Mathematicae Polonae Polskie Towarzystwo Matematyczne,1991 **Annual Symposium on Theoretical Aspects of Computer Science** ,1993 **Application and Theory of Petri Nets** ,1999

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web abstract to improve overall thermal efficiency while simultaneously reducing the nox emissions of gas boilers a novel flue gas condensation heat recovery and low nox emission system that integrates a direct contact heat exchange unit with a combustion air humidification unit is proposed