3.11.2010 1. Axiomatische Semantik aus historischer Sicht. Marcell Dietz, Georg Notter

@article{naur, Author = {P. Naur}, Journal = {BIT}, Pages = {310-316}, Title = {Proof of Algorithms by General Snapshots.}, Volume = {6}, Year = {1966}} @inproceedings{Floyd67, Author = {Robert W. Floyd}, Booktitle = {Proccedings of the AMS Symposium on Appllied Mathematics}, Pages = {19-31}, Publisher = {American Mathematical Society}, Title = {Assigning meanings to programms}, Volume = {19}, Year = {1967}}

@article{hoare69,

Author = {C.A.R. Hoare}, Journal = {Comm. ACM}, Title = {An axiomatic approach to computer programming.}, Volume = {12}, Year = {1969}}

siehe auch:

http://www.informatik.uni-hamburg.de/TGI/lehre/vl/WS1011/FGI3/index.html Folien zu Kapitel 2/Teil1

10.11.20102. Verifikation des Bounded-Retransmission-Protokols durch Prozessalgebra und Prozessalgebra-Tools.

Julian Scheel, Dominik Formella

@book{BOFOKK99, Author = {Wan Fokkink}, Publisher = {Springer-Verlag}, Title = {Introduction to Process Algebra}, Year = {1999}}

Section 6.2

17.11.20103. Verteilte Algorithmen: Kürzeste Wege in Netzwerken

Janina Nemec, Oliver Bestmann, Hannes Kuhlmann

G. Tel: Introduction to Distributed Algorithms

Chapter 4: Routing Algorithms

http://www.amazon.de/Introduction-Distributed-Algorithms-Gerard-Tel/dp/0521794838/ ref=sr_1_fkmr2_1?ie=UTF8&qid=1287741253&sr=8-1-fkmr2

24.11.20104. Verteilte Algorithmen: Gerüste in Netzwerken

Ednard Chuvanjinn, Johannes Stüber

A Distributed Spanning Tree Algorithm

Karl Erik Johansen, Ulla Lundin Jørgensen, Svend Hauge Nielsen, Søren Erik Nielsen and Sven Skyum Computer Science Department, Aarhus University, DK-8000 Aarhus C, Denmark

in: Distributed Algorithms: 2nd International Workshop, Amsterdam, the ... Von Jan van Leeuwen, LNCS 312 siehe:

http://books.google.de/books?id=D8lwb0G5aKAC&pg=PA1&lpg=PA1&dq=Johansen,Distributed+Alg,+spanning +tree&source=bl&ots=F-5S2Op0YE&sig=h5qsR5rXuaq4jPVh3mKStCctKxl&hl=de&ei=TWbBTOfkContsga7rbDTCA &sa=X&oi=book_result&ct=result&resnum=1&ved=0CBcQ6AEwAA#v=onepage&q&f=false

Robert G. Gallager, Pierre A. Humblet, and P. M. Spira, "A distributed algorithm for minimum-weight spanning trees," ACM Transactions on Programming Languages and Systems, vol. 5, no. 1, pp. 66-77, January 1983

1.12.2010 Term-Ersetzungs-Systeme

Stefan Rode, Markus Jansen

@book{BaNi98,

Author = {F. Baader and T. Nipkow}, Publisher = {Cambridge University Press}, Title = {Term Rewriting and All That}, Year = {1998}}

R. Valk, Vorl. "Semantik von Programmen", WiSe 2007

8.12.20106. Rekursion in Petrinetzen

Hendrik Linne, Nikolas Slottke, Sheng Tooran

@InProceedings{Haddad99,

"Serge Haddad and Denis Poitrenaud", author = " {Donatelli, Susanna} and {Kleijn, Jetty}", editor = "Theoretical Aspects of Recursive Petri Nets.", title =booktitle = "Lecture Notes in Computer Science: Application and Theory of Petri Nets 1999, 20th International Conference, ICATPN'99, Williamsburg, Virginia, USA", "1630", volume = "228--247", pages = publisher = "Springer-Verlag", month =jun, "1999". year = abstract = "The model of recursive Petri nets (RPNs) has been introduced in the field of multi-agent systems in order to model flexible plans for agents. In this paper we focus on some theoretical aspects of RPNs. More precisely, we show that this model is a strict extension of the model of Petri nets in the following sense: the family of languages of RPNs strictly includes the union of Petri net and Context Free languages. Then we prove the main result of this work, the decidability of the reachability problem for RPNS.}

15.12.2010 7. Prozessalgebra und Petrinetze

Alexander Eberling

@Article{Best01,

author = "E. Best and R. Devillers and M. Koutny",
title = "A unified model for nets and process algebra.",
ournal = "Handbook of Process Algebra, edited by J.A. Bergstra,
A. Ponse and Sc.A. Smolka, Chapter 14, Elsevier Science
B.V.",
bages = "873944",
year = "2001",
abstract = "This chapter of the handbook addresses a range of
issues that arise when process algebras and Petri nets
are combined; in particular, it focusses on
compositionality of structure and behaviour, on
refinement, and on equivalence notions. A generic
algebra of nets and process expressions is defined and
equipped with two types of semantics: a Petri net
semantics based on step sequences and causal partial

orders, and a structural operational semantics based on a system of derivation rules. The main result states that these two semantics are equivalent. A concrete example of this algebraic framework is the Petri Box Calculus (PBC) which is used to convey the basic ideas contained in this chapter.",

5.1.20118. Netze in Netzen

Julian Mosteller, David Mosteller

@Article{Valk04,

author = "Rüdiger Valk",

title = "Object Petri Nets: Using the Nets-within-Nets Paradigm.",

journal = "Lectures on Concurrency and Petri Nets: Advances in Petri Nets --- Volume 3098 of Lecture Notes in Computer Science / Jörg Desel, Wolfgang Reisig, Grzegorz Rozenberg (Eds.)",

pages = "819--848",

publisher = "Springer-Verlag",

month = jun,

year = "2004",

abstract =

t = "The nets-within-nets paradigm provides an innovative modelling technique by giving tokens themselves the structure of a Petri net. These nets, called token nets or object nets, also support the object oriented modelling technique as they may represent real world objects with a proper dynamical behaviour. Between object nets and the surrounding net, called system net, various interaction mechanisms exist as well as between different object nets. This introduction into the field of object Petri nets starts with small examples and proceeds by giving formal semantics. Some of the examples are modelled within the formalism of the Renew tool. Finally the differences between reference and two kinds of value semantics are discussed."}

12.1.2011 9. Datenkonsistenz Florian Bücklers, Felix Gessert

(u.a. Arbeiten von Kindler)

19.1.2011 10. Prozessalgebra, Rekursion und Petrinetze

Christoph Koch, Matthias Harms

@Article{Best01,

- author = "Eike Best and Raymond Devillers and Maciej Koutny",
- title = "Recursion and Petri nets.",
- journal = "Acta Informatica 37 (11–12)",
- pages = "781 829",

year = "2001",

abstract = "This paper shows how to define Petri nets through recursive equations. It specifically addresses this problem within the context of the {it box algebra}, a model of concurrent computation which combines Petri nets and standard process algebras. The paper presents a detailed investigation of the solvability of recursive equations on nets in what is arguably the most general setting. For it allows an infinite number of possibly unguarded equations, each equation possibly involving infinitely many recursion variables. The main result is that by using a suitable partially ordered domain of nets, it is always possible to solve a system of equations by constructing the limit of a chain of successive approximations.",}

26.1.201111. Kategrientheorie und Informatik

Niels Porsiel, Francis Amoah, Dimitri Popov

@book{BaNi98, Author = {M. Barr and C. Wells}, Publisher = {Prentice-Hall}, Title = {Category Theory for Computing Science}, Year = {1995}}

siehe auch: http://www.cs.toronto.edu/~sme/presentations/cat101.pdf

2.2.201112. Temporale Logik und Bisimulation

Nils Kubera, Julian Fietkau, Dominik Nuszpl

@book{Baier_Katoen, Author = {C. Baier and J.-P. Katoen}, Date-Added = {2008-08-26 13:25:38 +0200}, Date-Modified = {2008-08-26 13:33:09 +0200}, Keywords = {Model Checking}, Publisher = {MIT press}, Title = {Principles of Model Checking}, Year = {2008}}

Chapter 7

auch am 2.2.2011 ??? 13. Sicherheits- und Lebendigkeits-Eigenschaften als ω-Sprachen

Wolfram Wingerath, Steffen Friedrich

@book{Baier_Katoen, Author = {C. Baier and J.-P. Katoen}, Date-Added = {2008-08-26 13:25:38 +0200}, Date-Modified = {2008-08-26 13:33:09 +0200}, Keywords = {Model Checking}, Publisher = {MIT press}, Title = {Principles of Model Checking}, Year = {2008}}

Chapter 3