

# CURRICULUM VITAE

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**Nationality** Danish  
**Born** September 15, 1949  
**Family** Married, two daughters  
**Honours** Knight of the Dannebrog Order, 1.

## Education

- MSc in Computer Science and Mathematics  
University of Aarhus, 1973  
Thesis subject: Stochastic Automata  
Supervisor: Professor Brian H. Mayoh
- PhD in Computer Science  
University of Aarhus, 1976  
Thesis subject: Lindenmayer Systems  
Supervisor: Professor Arto Salomaa

## Employment Denmark

- Head of Aarhus Graduate School of Science, AGSoS, University of Aarhus, since 2007
- Full Professor in Theoretical Computer Science, University of Aarhus, since 2004
- Associate Professor in Computer Science, University of Aarhus, 1977–2004
- Director of the BRICS International PhD School in Computer Science, University of Aarhus, founded by the Danish National Research Foundation, 1997–2007

- Co-director of the BRICS Research Centre, founded by the Danish National Research Foundation, 1993–1997

## Employment abroad

- Research Associate, Computer Laboratory, Cambridge University, UK, 1986
- Research Associate, Computer Science Dpt., Edinburgh University, UK, 1977–79

## Teaching

Taught introductory and advanced computer science courses at university level in a range of areas covering *Automata Theory*, *Formal Languages*, *Computability*, *Logic in Computer Science*, *Semantics*, *Models for Concurrency*, *Programming Languages and their Implementations*, *Functional Programming*, *Logic Programming*, and *Expert Systems*.

Supervisor for 18 PhD students at the University of Aarhus. Supervisor for 43 MSc students in Computer Science at the University of Aarhus. External examiner for more than 30 PhD dissertations in Denmark and abroad. Internal PhD examiner for more than 50 PhD dissertations at the University of Aarhus.

Lecturer at many international summer schools and advanced courses in Computer Science, including recently

- *Doctoral Workshop on Mathematical and Engineering Methods in Computer Science*, Brno, Czech Republic, 2008
- *International Conference on Trust Management*, Pisa, Italy, 2006
- *Foundations of Security Analysis and Design, FOSAD*, Bertinoro, Italy, 2005
- *Advanced Course on Petri Nets*, Eichstätt, Germany, 2003
- *Application and Theory of Petri Nets*, University of Aarhus, 2000
- *Partial Order Methods in Verification*, Princeton University, 1997
- *Computational and Syntactic Methods*, Mierlo, The Netherlands, 1997
- *Advances in Petri Nets*, Saarbrücken, 1996
- *European Summer School in Logic, Language, and Information*, Barcelona, 1995
- *Semantics and Logic of Computation*, Isaac Newton Institute, Cambridge, 1995

As one of the co-founders of the European Educational Forum, actively involved in the organization of many international summer schools, see [www.win.tue.nl/EEF](http://www.win.tue.nl/EEF) for details.

Organizer of international summer schools in Computer Science at the University of Aarhus, including recently

- *Logical Methods*, 2001
- *Semantics of Computation*, 1999
- *Verification*, 1996
- *Logic in Concurrency*, 1993

Lectured on Computer Science outside university, e.g. for Danish television and industry. During the late 1980's actively involved in a major national training programme for high-school teachers in Computer Science.

## Research

Interested generally in Theoretical Computer Science and its applications. Previously active in *Theory of Automata and Formal Languages*, later in *Models, Logics and Languages for Concurrency*, and most recently in *Global Computing*.

Co-founder in 1993 of *BRICS*, *Basic Research in Computer Science*, a research centre founded by the Danish National Research Foundation. Director of *BRICS International PhD School* founded by the Danish National Research Foundation, since 1997.

Holder of various other international and national research and training grants, most recently

- *Research Training*, 2005–2010, the Danish Research Training Council
- *BRICS*, 1997–2006, the Danish National Research Foundation
- *Global Computing*, 2004–2006, the Villum Kann Rasmussen Foundation
- *Software Verification*, 2003–2006, the Danish Research Training Council
- *Interactive Computation*, 2001–2004, a Marie Curie Training Site
- *SECURE*, 2002–2004, an EU IST project
- *Verification of Mobile Processes*, 1997–99, an EU research training grant
- *Foundation of Distributed Systems*, 1993–95, an EU Human Capital and Mobility grant

Member of the editorial/advisory board for

- *Formal Aspects of Security and Trust* since 2006
- *Computer Science Reviews* since 2005
- *Theoretical Computer Science* since 2002
- *Higher-Order and Symbolic Computation* since 2002

- Editor of the Concurrency Column in *European Association for Theoretical Computer Science*, 1993–2002

Invited lecturer for a number of international conferences in Computer Science, most recently

- *Perspectives in Concurrency*, Chennai, India, 2008
- *From Computers to Ubiquitous Computing by 2020*, London, UK, 2008
- *Inaugural Symposium on Theoretical Computer Science, ICETCS*, Reykjavik, Iceland, 2005
- *Foundations of Global Ubiquitous Computing, FGUC*, London, UK, 2004
- *2'nd UK-UbiNet Workshop*, Cambridge, UK, 2004
- *International Conference on Principles and Practice of Declarative Programming, PPDP*, Uppsala, Sweden, 2003
- *International Colloquium on Automata, Languages and Programming, ICALP*, Crete, Greece, 2001
- *International Conference on Application and Theory of Petri Nets, ICATPN*, Newcastle, UK, 2001
- *Mathematical Foundations of Computer Science, MFCS*, Brno, Czech Republic, 1998
- *Foundations of Software Technology and Theoretical Computer science, FSTTCS*, Bangalore, India, 1995
- *International Conference on Concurrency Theory, CONCUR*, Uppsala, Sweden, 1994
- *Conference on Current Trends in Theory and Practice of Informatics, SOFSEM*, Czech Republic, 1993

Chairman/member of program committees for international conferences, including recently

- *Annual IEEE Symposium on Logic in Computer Science, LICS'10*
- *International Colloquium on Automata, Languages and Programming, ICALP'93, '94, '99, '00, '09*
- *Current Trends in Theory and Practice of Informatics, SOFSEM'96, '97, '09*
- *Formal Aspects of Security and Trust, FAST '04, '05, '06, '09*
- *Computability in Europe, CiE'08*
- *Privacy, Trust Management and Security, IFIPTM'07, '08*
- *Security Issues in Concurrency, SecCo'07*
- *Concurrency Theory, CONCUR'93, '94, '96, '98, '01, '02, '07*

- *Mathematical Foundations of Computer Science, MFCS'95, '96, '98, '00, '07*
- *International Conference on Trust Management, iTrust '06*
- *Trustworthy Global Computing, TGC '05*
- *Foundations of Computer Security, FCS '04*
- *Foundations of Software Science and Computation Structures, FOSSACS '99, '01, '02, '03, '04*
- *Foundations of Global Computing, FGC'03*
- *International Conference on Application and Theory of Petri Nets, ICATPN'00*
- *Foundations of Software Technology and Theoretical Computer Science, FSTTCS'96, '98*
- *Colloquium on Trees in Algebra and Programming, CAAP'95, '96*
- *Computer Science Logic, CSL'97*

## Professional Activities

Chairman and member of many international research boards and panels, including recently

- Member of the Selection Committee for the *Gödel Prize*, 2009-2012
- Member of *Academia Europaea* since 2006
- Member of the Council of the *European Association for Theoretical Computer Science* since 1996 (President 2002–2006, Vice-President 2006–2008)
- Member of the EU Specific Programme Committee for Ideas (European Research Council) since 2006
- Member of the Technical Committee of the *International Federation for Information Processing, IFIP, TC1: Foundations of Computer Science*, since 1999
- Member of the Advisory Panel for the *Icelandic Centre of Excellence in Theoretical Computer Science* since 2005.
- Member of the Evaluation Panel, Assessment of Research, Reykjavik University, Iceland, 2008 and 2009
- Member of the International Evaluation Panel for *l'Institut National de Recherche en Informatique et en Automatique, INRIA, theme 1C*, France, 2006 and 2007
- Member of the Steering committee for *Logic in Computer Science, LICS*, 2002–2006.
- Member of the Executive Committee of the *Association for Computing Machinery Special Interest Group on Algorithms and Computation Theory, SICACT* 2002–2006
- Chairman of the International Evaluation Panel for *l'Institut National de Recherche en Informatique et en Automatique, INRIA, theme 1C*, France, 2003

Member of many international educational policy committees, including presently

- Co-founder and member of the Board of the *European Educational Forum* since 1996
- Member of the Scientific Board of *Scuola Galileo*, Italy, since 2001
- Member of the Evaluation Panel for *International PhD Schools in Sweden*, 2007–2008
- Member of the Evaluation Panel for *IPA*, The Netherlands, 2006

Chairman and member of many national research committees under the Danish Ministry of Research, including

- Member of the Board of the Danish National Research Foundation, since 2006
- Member of the Board of the Danish Councils for Independent Research, 2004–2006
- Chairman of the Programme Committee for *Danish Information Technology Research Programmes* 1998–2000, a member until 2003
- Member of the committee for the *Danish Strategy for IT Research* 2002
- Chairman of *Danish National Advisory Board on Computing* 1992–96
- Chairman of the *Danish Research Council for Natural Science* 1989–91 (a member 1984–91)
- Chairman of the *Joint Committee of the Nordic Natural Science Research Councils* 1990–91
- Member of an evaluation panel for *Research and Higher Education in Physics in Denmark* 1991–92
- Chairman of the programme committee for a *Danish Research, Technology, and Development Programme in Informatics* 1985–89

Chairman and member of many national educational committees under the Danish Ministry of Education, including

- Chairman of *Danish Board of External Examiners in Computer Science* 1994–1998

Active in the University of Aarhus administration since 1971. Member of numerous administrative bodies, starting as Head of the Department of Computer Science in 1975–77 and 1980–82, including now

- Deputy head of the Department of Computer Science, 2001–2007
- Chairman of the *PhD Committee for Computer Science* 1992–2007
- Member of the *Research Committee for Computer Science* 2003–2007
- Member of the *Library Committee for Computer Science* 1999–2007
- Member of the *Public Image Committee for Computer Science* 1998–2007
- Member of the board of *Friends of the University of Aarhus* since 1996

## Dissemination

Author of several lecture notes for courses at the University of Aarhus, most recently

- M. Nielsen: Limitations of Program Verification, course notes for dBerLog, 2008

In the eighties, co-author with E.M. Schmidt of a number of introductory course notes in Danish, used in a major training activity aimed at teachers from Danish high schools. including

- E.M. Schmidt, M. Nielsen: Algoritmer - Konstruktion og Analyse, 75 pages, 1982
- E.M. Schmidt, M. Nielsen: Datalogisk Matematik, 78 pages, 1984
- E.M. Schmidt, M. Nielsen: Træer og Rekursion, 19 pages, 1984
- E.M. Schmidt, M. Nielsen: Gøymal - et sprog og en oversætter, 19 pages, 1986
- E.M. Schmidt, M. Nielsen: Transitionssystemer, 63 pages, 1988

## Editor

- [1] Maria Bielikova, Mogens Nielsen, Antonin Kucera, Peter Bro Miltersen, Catuscia Palamidessi, Petr Tuma, and Frank Valencia, editors. *SOFSEM 2009: Theory and Practice of Computer Science, Proceedings Volume II (Czech Republic, January 25–30, 2009)*, Charles University in Prague, 132 pages, 2009.
- [2] Mogens Nielsen, Antonin Kucera, Peter Bro Miltersen, Catuscia Palamidessi, Petr Tuma, and Frank Valencia, editors. *SOFSEM 2009: Theory and Practice of Computer Science, Proceedings (Czech Republic, January 25–30, 2009)*, volume 5404 of *Lecture Notes in Computer Science*. Springer Verlag, 2009.
- [3] Mogens Nielsen and Branislav Rován, editors. *Mathematical Foundations of Computer Science 2000*, special issue of *Theoretical Computer Science*, 340, 2005.
- [4] Mogens Nielsen, editor. *Current Trends in Theoretical Computer Science - The Challenge of the New Century, vol. 2: Formal Models and Semantics*, chapter Concurrency, pages 313–410. World Scientific, 2004.
- [5] Mogens Nielsen and Uffe H. Engberg, editors. *Foundations of Software Science and Computation Structures; Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS '02, FoSSaCS '02 Proceedings (Grenoble, France, April 10–12, 2002)*, volume 2303. Berlin: Springer-Verlag, 2002.
- [6] Kim G. Larsen and Mogens Nielsen, editors. *Concurrency Theory: 12th International Conference, CONCUR '01 Proceedings (Aalborg, Denmark, August 21–24, 2001)*, volume 2154 of *Lecture Notes in Computer Science*. Springer Verlag, August 2001.
- [7] Mogens Nielsen, editor. *Current Trends in Theoretical Computer Science – Entering the 21st Century*, chapter Concurrency, pages 437–542. World Scientific, 2001.
- [8] Mogens Nielsen and Branislav Rován, editors. *Mathematical Foundations of Computer Science: 25th International Symposium, MFCS '00 Proceedings (Bratislava, Slovak Republic, August 28 – September 1, 2000)*, volume 1893 of *Springer Lecture Notes in Computer Science*. Springer Verlag, August 2000.
- [9] Mogens Nielsen and Dan Simpson, editors. *21st International Conference on Application and Theory of Petri Nets, ICATPN '00 Proceedings (Aarhus, Denmark, June 26–30, 2000)*, volume 1825 of *Springer Lecture Notes in Computer Science*. Springer Verlag, June 2000.
- [10] Peter van Emde Boas, Jiri Wiedermann, and Mogens Nielsen, editors. *26th International Colloquium on Automata, Languages, and Programming, ICALP '99 Proceedings (Prague, Czech Republic July 11–15, 1999)*, volume 1644 of *Lecture Notes in Computer Science*. Springer-Verlag, 1999.

- [11] Mogens Nielsen and Wolfgang Thomas, editors. *European Association for Computer Science Logic: 11th International Workshop, CSL '97 Selected Papers (Aarhus, Denmark, August 23–29, 1997)*, volume 1414 of *Lecture Notes in Computer Science*. EACSL, Berlin: Springer-Verlag, May 1998.
- [12] Mogens Nielsen and Wolfgang Thomas, editors. *Preliminary Proceedings of the Annual Conference of the European Association for Computer Science Logic, CSL '97 (Aarhus, Denmark, August 23–29, 1997)*, number NS-97-1 in Notes Series, Department of Computer Science, University of Aarhus, August 1997. BRICS. vi+432 pp.
- [13] Allan Cheng, Kim G. Larsen, and Mogens Nielsen, editors. *Programme and Abstracts of the BRICS Autumn School on Verification (Aarhus, Denmark, October 28 – November 1, 1996)*, number NS-96-2 in Notes Series, Aarhus, August 1996. BRICS, Basic Research in Computer Science. ii+18pp.
- [14] Peter D. Mosses, Mogens Nielsen, and Michael I. Schwartzbach, editors. *TAPSOFT '95: Theory and Practice of Software Development*, number 915 in Lecture Notes in Computer Science. Springer-Verlag, 1995.
- [15] Uffe H. Engberg, Mogens Nielsen, and Glynn Winskel, editors. *Models, Languages and logics for Concurrent Distributed Systems, CEDISYS Workshop, Aarhus, Denmark, May 21–24, 1991*, number DAIMI PB-392 in PB Series, April 1992.
- [16] Mogens Nielsen and Erik Meineche Schmidt, editors. *9th Colloquium on Automata, Languages, and Programming, ICALP '82 Proceedings (Aarhus, Denmark, July 12–16, 1982)*, volume 140 of *Lecture Notes in Computer Science*. Springer-Verlag, 1982.

## Journal Publications

- [17] Karl Krukow, M. Nielsen, and Vladimiro Sassone. Trust Models in Ubiquitous Computing. *Philosophical Transactions of The Royal Society*, vol. 366 no. 1881: 3781–3793, 2008.
- [18] Karl Krukow, Mogens Nielsen, and Vladimiro Sassone. A Logical Framework for Reputation Systems and History-based Access Control. *Journal of Computer Security*, vol. 16,1: 63–101, 2008.
- [19] Mogens Nielsen, Karl Krukow, and Vladimiro Sassone. A Bayesian Model for Event-based Trust. *Electronic Notes in Theoretical Computer Science*, 172: 499–521, 2007.
- [20] Karl Krukow and Mogens Nielsen. Trust Structures *International Journal of Information Security*, 6(2-3): 153–181, 2007.
- [21] Marco Carbone, Mogens Nielsen, and Vladimiro Sassone. Trust in Global Computing. In *Association for Logic programming Newsletter*, vol 17, no 4, 2004.

- [22] Vinny Cahill, Elizabeth Gray, Jean-Marc Seigneur, Christian Jensen, Yong Chen, Brian Shand, Nathan Dimmock, Andy Twigg, Jean Bacon, Colin English, Waleed Wagealla, Sotirios Terzis, Paddy Nixon, Giovanna di Marzo Serugendo, Ciaran Bryce, Marco Carbone, Karl Krukow, and Mogens Nielsen. Using trust for secure collaboration in uncertain environments. *IEEE Pervasive Computing — Mobile and Ubiquitous Systems*, 2(3):52–61, 2003.
- [23] Marcin Jurdziński, Mogens Nielsen, and Jiří Srba. Undecidability of domino games and hhp-bisimilarity. *Information and Computation*, 184(2):343–368, 2003.
- [24] Mogens Nielsen and Frank D. Valencia. Temporal constraint programming: A framework for discrete-timed systems. *Association for Logic Programming Newsletter*, 15(4), 2003.
- [25] Mogens Nielsen, Catuscia Palamidessi, and Frank D. Valencia. Temporal concurrent constraint programming: Denotation, logic and applications. *Nordic Journal of Computing*, 9(2):145–188, 2002.
- [26] Mogens Nielsen and Thomas S. Hune. Bisimulation and open maps for timed transition systems. *Fundamenta Informaticae*, 38(1–2):61–77, 1999.
- [27] Allan Cheng and Mogens Nielsen. Open maps, behavioural equivalences, and congruences. *Theoretical Computer Science*, 190(1):87–112, 1998.
- [28] André Joyal, Mogens Nielsen, and Glynn Winskel. Bisimulation from open maps. *Information and Computation*, 127(2):164–185, 1996.
- [29] Mogens Nielsen and Glynn Winskel. Petri nets and bisimulation. *Theoretical Computer Science*, 153(1–2):211–244, 1996.
- [30] Vladimiro Sassone, Mogens Nielsen, and Glynn Winskel. Models for concurrency: Towards a classification. *Theoretical Computer Science*, 170(1–2):297–348, 1996.
- [31] Mogens Nielsen and Christian Clausen. Games and logics for a noninterleaving bisimulation. *Nordic Journal of Computing*, 2:222–250, 1995.
- [32] Mogens Nielsen, Grzegorz Rozenberg, and P. S. Thiagarajan. Transition systems, event structures, and unfoldings. *Information and Computation*, 118(2):191–207, 1995.
- [33] Javier Esparza and Mogens Nielsen. Decidability in Petri nets – A survey. *Bulletin of the EATCS*, 52:244–262, 1994.
- [34] Javier Esparza and Mogens Nielsen. Decidability issues for Petri nets. *Journal of Information Processing and Cybernet. EIK*, 30(3):143–160, 1994.

- [35] Mogens Nielsen, Grzegorz Rozenberg, and P. S. Thiagarajan. Elementary transition systems. *Theoretical Computer Science*, 96(1):3–33, 1992.
- [36] M. Nielsen, G. Rozenberg, P. S. Thiagarajan. Transition Systems, Event Structures and Unfoldings. *Information and Computation*, 118 (2), 1995, 191-207.
- [37] Mogens Nielsen, Grzegorz Rozenberg, and P. S. Thiagarajan. Elementary transition systems and refinement. *Acta Informatica*, 29(6–7):555–578, 1992.
- [38] Mogens Nielsen, Grzegorz Rozenberg, and P. S. Thiagarajan. Behavioural notions for elementary net systems. *Distributed Computing*, 4:45–57, 1990.
- [39] César Fernández, Mogens Nielsen, and P. S. Thiagarajan. Notions of realizable non-sequential processes. *Fundamenta Informaticae*, 9:421–454, 1986.
- [40] Mogens Nielsen, Gordon Plotkin, and Glynn Winskel. Petri nets, event structures and domains, part I. *Theoretical Computer Science*, 13(1):85–108, 1981.
- [41] Mogens Nielsen. EOL systems with control devices. *Acta Informatica*, 4(4):373–386, 1975.
- [42] Mogens Nielsen. On the decidability of some equivalence problems for DOL-systems. *Information and Control*, 25(2):166–193, 1974.
- [43] Mogens Nielsen, Grzegorz Rozenberg, Arto Salomaa, and Sven Skyum. Nonterminals, homomorphisms and codings in different variations of OL-systems. I. Deterministic systems. *Acta Informatica*, 4(1):87–106, 1974.
- [44] Mogens Nielsen, Grzegorz Rozenberg, Arto Salomaa, and Sven Skyum. Nonterminals, homomorphisms and codings in different variations of OL-systems. II. Nondeterministic systems. *Acta Informatica*, 3(4):357–364, 1974.

## Book Chapters

- [45] Doina Bucur and Mogens Nielsen. Secure Data Flow in a Calculus for Context Awareness. In *Concurrency, Graphs and Models*, volume 5065 of *Lecture Notes in Computer Science*, pages 439-456, Springer Verlag, 2008.
- [46] Gerard Boudol, Ilaria Castellani, Matthew Hennessy, Mogens Nielsen, and Glynn Winskel. Twenty Years on: Reflections on the CEDISYS Project. In *Concurrency, Graphs and Models*, volume 5065 of *Lecture Notes in Computer Science*, pages 757-777, Springer Verlag, 2008.

- [47] Mogens Nielsen and Karl Krukow. On the Formal Modeling of Trust in Reputation-Based Systems. In J. Karhumäki, H. Maurer, G. Paun, G. Rozenberg, editors, *Theory Is Forever: Essays Dedicated to Arto Salomaa*, pages 192–204, 2004, Springer Verlag, 2004.
- [48] Uffe H. Engberg and Mogens Nielsen. A calculus of communicating systems with label passing—ten years after. In Gordon Plotkin, Colin Stirling, and Mads Tofte, editors, *Proof, Language, and Interaction; Essays in Honour of Robin Milner*, Foundations of Computing, chapter V, Mobility, pages 599–622. MIT Press, 2000.
- [49] Glynn Winskel and Mogens Nielsen. Categories in concurrency. In Andrew M. Pitts and Peter Dybjer, editors, *Semantics and Logics of Computation*, Publications of the Newton Institute, pages 299–354. Cambridge University Press, 1997.
- [50] Mogens Nielsen and Glynn Winskel. *The Book of Traces*, chapter Trace Structures and other Models for Concurrency, pages 271–306. World Scientific, 1995.
- [51] Glynn Winskel and Mogens Nielsen. Models for concurrency. In Samson Abramsky, Doug M. Gabbay, and Tom S. E. Maibaum, editors, *Handbook of Logic in Computer Science*, volume 4, pages 1–148. Oxford University Press, 1995.
- [52] Mogens Nielsen. A programming language for Lindenmayer systems. In Grzegorz Rozenberg and Arto Salomaa, editors, *The Book of L*, pages 333–344. Springer-Verlag, 1986.
- [53] Jean Berstel and Mogens Nielsen. The growth range equivalence problem for D0L systems is decidable. In Aristid Lindenmayer and Grzegorz Rozenberg, editors, *Automata, Languages and Development: At the crossroads of biology, mathematics and computer science (Noordwijkerhout, The Netherlands, 1975)*, pages 161–178. Amsterdam: North Holland, 1976.

## Conference Proceedings

- [54] Ehab ElSalamouny, Mogens Nielsen, and Vladimiro Sassone. HMM-based Trust Model. In proceedings from *Formal Aspects in Security and Trust, FAST'09*, in volume 5893 of *Lecture Notes in Computer Science*, pages 21–35, Springer Verlag, 2010.
- [55] Karl Krukow, Mogens Nielsen, and Vladimiro Sassone. Probabilistic Computational Trust. In *Perspectives in Concurrency Theory*, Universities Press, pages 295–316, 2008.
- [56] Jesus A. Aranda, Cinzia Di Giusto, Mogens Nielsen, and Frank Valencia. CCS with Replication in the Chomsky Hierarchy: The Expressive Power of Divergence. In

- proceedings of *Fifth ASIAN Symposium on Programming Languages and Systems (APLAS 2007)*, volume 4807 of *Lecture Notes in Computer Science*, pages 383–398, Springer Verlag, 2007.
- [57] Vladimiro Sassone, Karl Krukow, and Mogens Nielsen. Towards a Formal Framework for Computational Trust. In proceedings of *5<sup>th</sup> International Symposium on Formal Methods for Components and Objects, FMCO'06*, volume 4709 of *Lecture Notes in Computer Science*, pages 175–184, Springer Verlag, 2007.
- [58] Karl Krukow and Mogens Nielsen. From Simulations to Theorems: A Position Paper on Research in the Field of Computational Trust. In proceedings of *Formal Aspects in Security and Trust, FAST'06*, volume 4691 of *Lecture Notes in Computer Science*, pages 96–111, Springer Verlag, 2007.
- [59] Karl Krukow, Mogens Nielsen, and Vladimiro Sassone. A Framework for Concrete Reputation-Systems with Applications to History-Based Access Control. In proceedings of *Computer and Communications Security, CCS'05*, ACM Press, pages 260–269, 2005.
- [60] Marco Carbone, Mogens Nielsen, and Vladimiro Sassone. A Calculus for Trust Management. In proceedings of *Foundations of Software Technology and Theoretical Computer Science, FSTTCS'04*, volume 3328 of *Lecture Notes in Computer Science*, pages 161-173, Springer Verlag, 2004.
- [61] Mogens Nielsen and Frank D. Valencia. Notes on Timed Concurrent Constraint Programming. In *Advances in Petri Nets*, volume 3098 of *Lecture Notes in Computer Science* pages 702–741, Springer Verlag, 2003.
- [62] Marco Carbone, Mogens Nielsen, and Vladimiro Sassone. A formal model for trust in dynamic networks. In Antonio Cerone and Peter Lindsay, editors, *1st International Conference on Software Engineering and Formal Methods, SEFM '03 Proceedings (Brisbane, Australia, September 22 - 27, 2003)*, pages 54–61. IEEE Computer Society, IEEE Press, 2003.
- [63] Mogens Nielsen and Karl Krukow. Towards a formal notion of trust. In Dale Miller, editor, *5th International Conference on Principles and Practice of Declarative Programming, PPDP '03 Proceedings (Uppsala, Sweden, August 27–29, 2003)*, pages 4–7. Association for Computing Machinery (ACM), ACM Press, 2003.
- [64] Mogens Nielsen and Frank D. Valencia. Temporal concurrent constraint programming: Applications and behavior. In Wilfried Brauer, Hartmut Ehrig, Juhani Karhumäki, and Arto Salomaa, editors, *Formal and Natural Computing*, volume 2300 of *Lecture Notes in Computer Science*, chapter IV, Concurrent Computing, pages 298–324. Springer-Verlag, 2002.

- [65] Mogens Nielsen, Catuscia Palamidessi, and Frank D. Valencia. A calculus for temporal concurrent constraint programming. In Luca Aceto and Prakash Panangaden, editors, *Expressiveness in Concurrency: 8th International Workshop, EXPRESS '02 Proceedings (Aalborg, Denmark, August 20, 2001)*, volume 52(1) of *Electronic Notes in Theoretical Computer Science*. Short abstract. Elsevier Science Publishers, 2002.
- [66] Mogens Nielsen, Catuscia Palamidessi, and Frank D. Valencia. On the expressive power of temporal concurrent constraint programming languages. In Frank Pfenning, editor, *4th International Conference on Principles and Practice of Declarative Programming, PPDP '02 Proceedings (Pittsburgh, Pennsylvania, USA, October 6–8, 2002)*, pages 156–167. Association for Computing Machinery (ACM), ACM Press, 2002.
- [67] Mogens Nielsen and P. S. Thiagarajan. Regular event structures and finite Petri nets: The conflict-free case. In Javier Esparza and Charles Lakos, editors, *Proceedings of the International Conference on Application and Theory of Petri Nets, 2002*, volume 2360 of *Lecture Notes in Computer Science*, pages 335–393. Springer-Verlag, 2002.
- [68] Mogens Nielsen. Modelling with partial orders — Why and why not? In Fernando Orejas, Paul Spirakis, and Jan van Leeuwen, editors, *28th International Colloquium on Automata, Languages, and Programming, ICALP '01 Proceedings (Crete, Greece, July 18–12, 2001)*, volume 2076 of *Lecture Notes in Computer Science*, pages 61–63. Springer-Verlag, 2001.
- [69] Mogens Nielsen, Vladimiro Sassone, and Jiří Srba. Properties of distributed timed-arc Petri nets. In Ramesh Hariharan, Madhavan Mukund, and V. Vinay, editors, *Foundations of Software Technology and Theoretical Computer Science: 21st Conference, FST&TCS '01 Proceedings (Bangalore, India, December 13–15, 2001)*, volume 2245 of *Lecture Notes in Computer Science*, pages 280–291. Springer-Verlag, 2001.
- [70] Mogens Nielsen, Vladimiro Sassone, and Jiří Srba. Towards a notion of distributed time for Petri nets. In José-Manuel Colom and Maciej Koutny, editors, *22nd International Conference on Application and Theory of Petri Nets, ICATPN '01 Proceedings (Newcastle upon Tyne, UK, June 25–29, 2001A)*, volume 2075 of *Lecture Notes in Computer Science*, pages 23–31. Springer-Verlag, 2001.
- [71] Marcin Jurdziński and Mogens Nielsen. Hereditary history preserving bisimilarity is undecidable. In Horst Reichel and Sophie Tison, editors, *17th Annual Symposium on Theoretical Aspects of Computer Science Proceedings, STACS '00 Proceedings (Lille, France, February 17–19, 2000)*, volume 1770 of *Lecture Notes in Computer Science*, pages 358–369. Springer-Verlag, 2000.
- [72] Thomas S. Hune and Mogens Nielsen. Timed bisimulation and open maps. In Luboš Brim, Jozef Gruska, and Jiří Zlatuška, editors, *Mathematical Foundations of Computer Science: 23rd International Symposium, MFCS '98 Proceedings (Brno,*

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