

PUBLICATIONS AND PROFESSIONAL ACTIVITIES 2000-2014

Eike Best (April 2014)

Addresses

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Brief Curriculum Vitae

- 13.03.1951: Born in Neustadt an der Weinstraße (Germany)
- 07.06.1969: Abitur: German High School, Istanbul (Turkey)
- 1969/1974: Study of Informatik (Computer Science), Technische Universität Karlsruhe
- 11.11.1974: Diplom (~ M.Sc.) in Informatik; Title of Thesis: *Contributions to the Theory of Petri Nets*
- 01.03.1975–31.05.1976: Research Associate in the *Gesellschaft für Mathematik und Datenverarbeitung* (GMD) (German National Research Center for Computer Science) in Bonn / Sankt Augustin
- 01.06.1976–31.08.1981: Research Associate at the University of Newcastle upon Tyne (UK)
- 01.09.1981–30.09.1988: Research Associate at the *Institut für Informationssystemforschung* – later known as the *Institut für Methodische Grundlagen* – of GMD
- 01.10.1988–31.03.1989: C3-Professor (~ assistant professor) for Informatik at the Universität-Gesamthochschule in Paderborn
- 01.04.1989–30.09.1996: C4-Professor (full professor) for Computer Science (Chair of Theoretical Computer Science) at the Universität Hildesheim
- 01.10.1996–now: C4-Professor (full professor) for Computer Science (Chair of Theoretical Computer Science) at the Carl-von-Ossietzky-Universität Oldenburg
- 1980-1982: Promotion: PhD at the University of Newcastle upon Tyne; Supervisors: Dr. Peter E. Lauer und Prof. Brian Randell. Title of the Dissertation: *Semantics, Verification and Design of Concurrent Programs Using Atomic Actions*
- 1988: Habilitation at the University of Bonn. Title of the Habilitation Thesis: *Kausale Semantik nichtsequentieller Programme* (Causal Semantics of Nonsequential Programs)
- 19.06.1989–22.07.1995: Principal Researcher of the ESPRIT Basic Research Project No. 3148 DEMON (Design Methods Based on Nets) and of the ESPRIT Basic Research Working Group No. 6067 CALIBAN (Causal Calculi Based on Nets)

- 01.01.1993–now: Principal Researcher of various projects funded by Deutsche Forschungsgemeinschaft, by DAAD (German Academic Exchange Service), by VW-Stiftung, and by other organisations
- 1987–2004: Membership in IFIP’s Technical Committee 2, Working Group 2.2 (Formal Description of Programming Concepts); member emeritus since 2005
- 1990–2013: Member of the Steering Committee of the *CONCUR* series of conferences
- 1979–2010: Invited Lecturer at all five Advanced Courses on Petri Nets
- Research Interests: Distributed computing. Model checking, verification, and synthesis of concurrent systems. Modelling and validation. Petri nets. Process calculi. Programming, efficient algorithms, and complexity. Security. Semantics of concurrent systems. Synthesis and reengineering. Security.

Contents

1 BOOKS	3
2 EXTERNAL FUNDING, TOOLS	3
3 REFEREED JOURNAL PUBLICATIONS	4
4 REFEREED CONFERENCE PUBLICATIONS	5
5 OTHER REFEREED PUBLICATIONS	6
6 INVITED, PARTLY REFEREED PUBLICATIONS	6
7 TECHNICAL REPORTS	7
8 LECTURE NOTES	7
9 ORGANISATION OF EVENTS	8
10 TEACHING	8
11 ADMINISTRATION	11
12 OTHER COURSES	11
13 INVITATIONS, MEMBERSHIPS, REFEREEING	12
14 LECTURES GIVEN AND VISITS MADE	13

Activities since 2000

1 BOOKS

„*Petri Net Algebra*“.

Springer-Verlag, 380 pages (January 2001), ISBN 3-540-67398-9 (with Raymond Devillers and Maciej Koutny)

„*Applications and Theory of Petri Nets 2003*“.

24th International Conference, ICATPN 2003, Eindhoven, The Netherlands, June 23-27, 2003. Proceedings, Springer-Verlag, Lecture Notes in Computer Science, Vol. 2679 (2003), ISBN 3-540-57208-2 (with Wil v.d. Aalst)

2 EXTERNAL FUNDING, TOOLS

Externally Funded Projects

- SCARE: (System Correctness under Adverse Condition, <http://scare.uni-oldenburg.de/>), 2012-... Supported by the DFG (Deutsche Forschungsgemeinschaft) in its Graduate School Programme.
- DARTS: Design and Analysis Methods for Real-Time Systems. DFG-funded cooperative project with the Russian Academy of Sciences at Novosibirsk, 2009-2011 (with Prof. Irina Virbitskaite).
- Projekt zur Verbesserung des Übungsbetriebs in der Informatik. 2007-2009 (with Hans Fleischhack).
- Langzeitstudierenden-Projekt ENDSPURT: 2006-2008 (with Hans Fleischhack).
- Trustsoft (Trustworthy Software Systems, <http://trustsoft.uni-oldenburg.de/>), 2005-2009. Supported by the DFG (Deutsche Forschungsgemeinschaft) in its Graduate School Programme. I was in charge of two Trustsoft PhD projects (Astrid Rakow who earned her PhD in 2011, and Malte Diehl who chose to change into an industrial employment).
- Comète (Concepts and Analysis Methods for Mobile and Time Critical Systems), 2004-2005. Supported by the DAAD in its PROCOPE programme (with the University of Paris-Créteil).
- BLK (Bund-Länder-Kommission) project on new curricula (2000-2004): <http://blk-lps.informatik.uni-oldenburg.de/> (with Hans Fleischhack).
- JIP (Java in PEP), 2001-2003. Supported by the DAAD (Deutscher Akademischer Austauschdienst) in its Germany/U.K. exchange programme (with the University of Newcastle upon Tyne).
- BAT (Box Algebra with Time), 1998-2001. Supported by the DAAD in its ARC programme (with the University of Newcastle upon Tyne).
- PORTA (Partial Order Real-Time Analysis), 1999-2002. Supported by the DAAD in its PROCOPE programme (with the University of Paris-Orsay).

External Funds Supporting Specific Persons

- Evgeny Erofeev, MSc, supported by SCARE, from March 2014.
- Dr. Igor Tarasyuk, Universität Novosibirsk, Russland (DAAD grant holder), September-October 2008.
- Prof. Dr. Li Sek Su, Universität Pjöngyang, North Korea (grant holder of Alexander-von-Humboldt-Stiftung), 2005-2006.
- Dr. Igor Tarasyuk, Universität Novosibirsk, Russland (DAAD grant holder), 2005-2006.
- Andreea Barbu (grant holder of Robert-Schumann-Stiftung to support French-German PhD co-tutelle), 2000-2003.
- Dr. Alexander Lavrov (grant holder of Alexander-von-Humboldt-Stiftung), 1996-2000 (earning his Habilitation in 2000). Update (December 2007): Dr. Lavrov gained an offer of a professorship at Fachhochschule Kaiserslautern-Pirmasens.

Tool Construction

„*APT - Analysis of Petri Nets and Transition Systems*“.

hosted at <https://github.com/renke/apt>

„*PEP - a Programming Environment Based on Petri Nets*“.

Initially funded by the DFG (Deutsche Forschungsgemeinschaft), and since 2003 hosted by SourceForge at <http://sourceforge.net/projects/peptool> (with Christian Stehno and Bernd Grahlmann)

„*Various Advanced Student Projects*“.

APT (2012-2013): Analysis of Petri Nets and Transition Systems; see <http://parsys.informatik.uni-oldenburg.de/~apt/> STEGO (2008-2009): Steganography. (with Malte Diehl, Hans Fleischhack, Martin Hilscher, Elke Wilkeit). STETZ (2006-2007): Studieneingangstests. (with Hans Fleischhack, Christian Stehno, Elke Wilkeit, Harro Wimmel). P-UMLaut (2005-2006): Modelling, Simulation, and Visualization of Complex Systems. KoSI (2000-2001): Kooperative Spiele im Internet. KerMod (2002-2003): Ein moderationsunterstützendes Tool. Hellics http://theoretica.informatik.uni-oldenburg.de/~dna/index_e.html

Participation in Fairs and Exhibitions

- CeBIT, Hannover, 2006: P-UMLaut.
- CeBIT, Hannover, 2004: KerMod.

3 REFEREED JOURNAL PUBLICATIONS

„*Separability in Persistent Petri Nets*“.

Fundamenta Informaticae, 112:1-25, 2011. (with Philippe Darondeau)

„*A Categorical View of Timed Behaviours*“.

Fundamenta Informaticae, Vol. 102(1), 129-143 (2010). (with Irina Virbitskaite and Natalya Gribovskaya)

„*A Decomposition Theorem for Finite Persistent Transition Systems*“.

Acta Informatica 46(3), 237-254 (May 2009). (with Philippe Darondeau)

„*Making Petri Nets Safe and Free of Internal Transitions*“.

Fundamenta Informaticae 80, 75-90 (2007). (with Philippe Darondeau and Harro Winkelmann)

„*The Box Algebra = Petri Nets + Process Expressions*“.

Information and Computation 178 (2002), 44-100 (with Raymond Devillers and Maciej Koutny)

„*Recursion and Petri Nets*“.

Acta Informatica 37 (2001), 781-829 (with Raymond Devillers and Maciej Koutny)

4 REFEREED CONFERENCE PUBLICATIONS

(‘LNCS’ means Springer Lecture Notes in Computer Science.)

„*Synthesis of Persistent Systems*“.

Proc. 35rd International Conference on Application and Theory of Petri Nets and Concurrency (Tunis, August 2014). Springer-Verlag (2014) (with Raymond Devillers)

„*Characterisation of the State Spaces of Live and Bounded Marked Graph Petri Nets*“.

In A.-H. Dediu et al. (eds), Proc. LATA’14 (8th International Conference on Language and Automata Theory and Applications, Madrid, March 2014), LNCS 8370, Springer-Verlag, pp. 161172 (with Raymond Devillers)

„*Unifying Equivalences for Timed Transition Systems*“.

In Andrei Voronkov, editor, Turing-100, volume 10 of EPiC Series, pages 386-404. EasyChair, 2012. Proc. The Alan Turing Centenary Conference, Manchester (U.K.), June 22-25 (with Irina Virbitskaite and Natalya Gribovskaya)

„*Deciding Selective Declassification of Petri Nets*“.

In Pierpaolo Degano and Joshua D. Guttman, editors, Principles of Security and Trust, First International Conference, POST 2012 (held as part of ETAPS 2012, Tallinn), volume 7215 of ARCoSS/LNCS, pages 290-308. Springer, 2012. ISBN 978-3-642-28640-7. (with Philippe Darondeau)

„*Relating Categorical Semantics for Higher Dimensional Automata*“.

Proceedings of the International Workshop on Concurrency, Specification and Programming (CS&P’2011), Pułtusk, 28-30 September 2011. Marcin Szczuka, Ludwik Czaja, Andrzej Skowron, Magdalena Kacprzak (eds). Białystok University of Technology, Technical Report, 385-396. (with Elena Oshevskaia and Irina Virbitskaite)

„*A Categorical View of Bisimulation for Higher Dimensional Automata*“.

Proceedings of the 23rd Nordic Workshop on Programming Theory. October 26-28, 2011 Västerås, Sweden Paul Pettersson and Cristina Seceleanu (Eds). Mälardalen University, Technical Report 254/2011, 102-104, ISSN 1404-3041. (with Elena Oshevskaia and Irina Virbitskaite)

„*On the Decidability of Non Interference over Unbounded Petri Nets*“.

Proc. SecCo’2010, 8th Intl. Workshop on Security Issues in Concurrency (Kostas Chatzikokolakis and

Véronique Cortier, eds), volume 51 of EPTCS,16-33. (with Philippe Darondeau and Roberto Gorrieri)

„*Separability in Persistent Petri Nets*“.

In Petri Nets 2010 (J. Lilius, W. Penczek, eds), Springer-Verlag, LNCS 6128, 246-266 (2010). (with Philippe Darondeau)

„*Relational Semantics Revisited*“.

Proc. SOS-2008 (M. Hennessy, B. Klin, eds), ENTCS 229:27-47, www.elsevier.nl/locate/entcs (August 2009) (with Kerstin Strecker)

„*Decomposition Theorems for Bounded Persistent Petri Nets*“.

Proceedings of ATPN'08, K.v. Hee, R. Valk (eds), Xi'An, Springer-Verlag, LNCS 5062, 33-51 (2008) (with Philippe Darondeau)

„*Reducing k-safe Petri Nets to Pomset-equivalent 1-safe Petri Nets*“.

PN'2000, 21st International Conference on Applications and Theory of Petri Nets, M. Nielsen, D. Simpson (eds), Springer-Verlag, LNCS 1825, Århus, Denmark (June 2000), 63-82 (with Harro Wimmel)

„*Simulation of DNA-Computing (1-page abstract of a poster presentation)*“.

Proceedings of DNA6, Leiden, June 13-17 (2000) (with Heiko Burchard, Hans Fleischhack, André Hackmann, Ernst Kretschmann, Stefan Kühnapfel and Astrid Rakow)

5 OTHER REFEREED PUBLICATIONS

„*Structure Theory of Petri Nets*“.

Proc. of the Fifth Advanced Course on Petri Nets, Rostock, 2010, K. Jensen et al. (Eds.): ToPNoC VII, volume 7480 of LNCS, pp. 162-224, Berlin, Heidelberg 2013. Springer-Verlag. (with Harro Wimmel)

„*On the Reducibility of Persistent Nets*“.

In Festschrift for P.S. Thiagarajan, Kamal Lodaya, Madhavan Mukund, R. Ramanujam (eds), Perspectives in Concurrency Theory, Universities Press / Indian Association for Research in Computer Science, 22-34 (2009). (with J. Desel)

„*A Note on Persistent Petri Nets*“.

In Festschrift for Ugo Montanari, P. Degano, R. de Nicola, R. Gorrieri (eds), Springer-Verlag, LNCS 5065, 427-438 (2008)

„*A Unified Model for Nets and Process Algebras*“.

Chapter 14 in: Handbook on Process Algebra, eds.: J.A.Bergstra, A.Ponse, S.S.Smolka, North Holland, 873-944, ISBN 0-444-82830-3 (2001). (with R.Devillers and M.Koutny)

6 INVITED, PARTLY REFEREED PUBLICATIONS

„*Petri net reengineering can be hard*“.

Petri Net Newsletter, Cover Picture, 2 pages (2014) (with Raymond Devillers)

„*Petri Nets at the University of Oldenburg in Germany*“.

In Petri Net Newsletter Vol. 82, ISSN 0391-1804, Gesellschaft für Informatik, 21-23 (April 2013)

„*A Puzzle on Parikh and Language Equivalences*“.

Petri Net Newsletter, Cover Picture (October 2011) pages 1-3 (with Philippe Darondeau)

„*Petri Net Distributability*“.

In Irina Virbitskaite and Andrei Voronkov, editors, Proc. PSI'11 (Ershov Informatics Conference), Novosibirsk, volume 7162 of LNCS, pages 1-18, Berlin, Heidelberg, 2011. Springer-Verlag. (with Philippe Darondeau)

„*A Slicing Technique for Business Processes*“.

In Kaschek, Kop, Steinberger, and Fliedl, editors, UNISCON 2008, LNBIP 5, 45-51, Springer-Verlag (2008). (with Astrid Rakow)

„*Separability in Conflict-free Petri Nets*“.

In I. Virbitskaite und A. Voronkov (eds), Perspectives of Systems Informatics, volume 4378 of Lecture Notes in Computer Science, 1-18. Springer-Verlag (2006). (with Javier Esparza, Harro Wimmel, and Karsten Wolf)

„*Process Algebra: A Petri-Net-Oriented Tutorial*“.

Contribution for the 4th Advanced Course on Petri Nets, in Jörg Desel, Wolfgang Reisig, and Grzegorz Rozenberg, editors, Lectures on Concurrency and Petri Nets, volume 3098 of Lecture Notes in Computer Science, 180-209 (2004). (with Maciej Koutny)

„*Entwicklung eines Leistungspunktsystems in Fachbereichen Elektrotechnik und Informatik*“.

Im Abschlussbericht zu einem BLK-Modellversuchsprojekt, Gerhard Wenke, Heike Tauer Schmidt (eds) (2004). (with Hans Fleischhack, Sabine Gronewold, Thomas Scheidsteger, Ulrike Scheidsteger)

„*Überprüfung vom Steuersystemen mit PEP*“.

Niedersächsisches Ministerium für Wissenschaft und Kultur (Ed.): Informationstechnologie an niedersächsischen Hochschulen (March 2002), 40-41 (with Christian Stehno)

7 TECHNICAL REPORTS

„*Persistent Systems with Unique Minimal Cyclic Parikh Vectors*“.

Technical Report 02/14, Dep. Informatik, Carl von Ossietzky Universität Oldenburg, 80 pages (February 2014) (with Raymond Devillers)

„*Some Evidence on the Consistency of Categorical Semantics for Timed Interleaving Behaviours*“.

Technical Report 01/12, Dep. Informatik, Carl von Ossietzky Universität Oldenburg (February 2012) (with Irina Virbitskaite and Natalya Gribovskaya)

„*Separability in Persistent Petri Nets*“.

Number 04/09 in Berichte aus dem Department für Informatik, 25 pages. C.v.O. Universität Oldenburg (November 2009). (with Philippe Darondeau)

8 LECTURE NOTES

„*Komplexitätstheorie*“.

Vorlesungsskript 2009-2014, in German

„*Modelchecking*“.

Vorlesungsskript 2007-2010, in German

„*Theoretische Informatik 1*“.

Comprehensive set of slides, 2007-2010, in German

„*Petrinetze, part II*“.

Vorlesungsskript 2006-2009, in German (with Harro Wimmel)

„*Effiziente Algorithmen*“.

Vorlesungsskript 1994-2006, in German

„*Kryptographie*“.

Vorlesungsskript 2004, in German

„*Petrinetze, part I*“.

Vorlesungsskript 2003-2014, in German (with Harro Wimmel)

„*Theoretische Informatik 2*“.

Vorlesungsskript 2002-2014, in German

„*Theorie und Spiele*“.

Vorlesungsskript 1998-2000, in German

„*Automatentheorie und Logik*“.

Vorlesungsskript 1997-2004, in German

„*Komplexitätstheorie*“.

Vorlesungsskript 1990-2000, in German (with J. Esparza and M. Söding)

9 ORGANISATION OF EVENTS

- Workshop of a BLK Project on New Curricula, Oldenburg, November 13-14, 2003; approximately 20 participants.
- BAT/JIP Workshop, December 2001 (1 week), Oldenburg; approximately 10 participants.

10 TEACHING

Supervision and Examination

- Ongoing supervision as of March 2014: Evgeny Erofeev (PhD Thesis), Thomas Strathmann (PhD Thesis), Miro El Seidi (BsC Thesis).
- Principal supervisor of:
 - Many Diplom and MSc Theses (Detlef Hillen, Claudia Toussaint, Uwe Deichmann, Tomas Talanis, Holger Schirnack, Wolfgang Fischer, Matthias Friese, Thomas Thielke, Stefan Römer, Robert-Christoph Riemann, Uwe Hackl, Hartmut Trübe, Burkhard Graves, Theo Ehard-Zieb, Tobias Himstedt, Lars Jenner, Stefan Melzer, Bernd Teßmer, Martina Johl, Ulrich Anhalt, Matthias Moeller, Burkhard Bieber, Katharina Wegener, Carola Pohl, Martin Ackermann,

- Christoph Gerlach, Holger Krekel, Kerstin Maike Richter, Johannes Jäger, Michael Kater, Ulf Fildebrandt, Stefan Schwoon, Stefan Kauer, Stefan Liesche, Manuela Kunz, Peter Harders, Andreea Barbu, Christian Stehno, Ernst Kretschmann, André Hackmann, Astrid Rakow, Matthias Brill, Niklas Mehner, Andreas Marshall, Oliver Erdmann, Jörg Dannemann, Michael Köhrmann, Uwe Viergutz, René Hess, Margarete Muhle, Ulrich Hobelmann, Harry Egbers, Thorsten Schlörmann, Felix Fontein, Frank Nagel, Ortwin Escher, Anke Mangels, Tim Strazny, Robert Bleiker, Helge Hartmann, Ana-Maria Mesaros, Patrik Schulz, Iris Wilde, Jan Jelschen, Holger Lubitz, Kristian Heidmann, Yangzi Zhang, Hillit Saathoff),
- One U.K. MSc Thesis (Alex Ruskin),
 - Several PhD Theses (Lucia Pomello, Hans-Günther Linde-Göers, Robert-Christoph Riemann, Bernd Grahlmann, Thomas Thielke, Andreea Barbu, Astrid Rakow),
 - And three Habilitation Theses (Javier Esparza, Alexander Lavrov, Harro Wimmel).
- External examiner of:
 - Several PhD Theses (Agathe Merceron-Brecht, Lucia Pomello, Javier Esparza, Antti Valmari, Jürgen Schepers, Rob J. van Glabbeek, Julian Bradfield, Hanna Klaudel, Jon G. Hall, Luca Bernardinello, Wojciech Frączak, Twan Basten, Stefan Keuer, Robert-Christoph Riemann, Harro Wimmel, Karsten Schmidt, Keijo Heljanko, Stephan Melzer, Arnim Wedig, Michael Weber, Jens Happe, Roland Meyer),
 - Several Habilitation Theses (Robert Lorenz, Louchka Popova-Zeugmann, Peter Cissek, Franck Pommereau, Stefan Schwoon)
 - And one Tesi di Laureo (Oliver Botti).
 - Furthermore, I have been co-examiner for many BSc, MSc, Diplom and PhD Theses.

Recent Teaching

At the Carl-von-Ossietzky-Universität Oldenburg (from 1996 onwards):

(a) Standard (undergraduate) Courses:

Wintersemester:	Theory of Computing (4 hours per week + 2 hours per week exercises)
	Complexity Theory (4 hpw + 2 hpw exercises)
Sommersemester:	Basic Logic (4 hpw + 2 hpw exercises)
	Automata Theory and Logic (4 hpw + 2 hpw exercises).

From 2000 onwards, these courses have changed into **teaching modules** of 6 ECTS each (6 European Credit Transfer System points average between 150 to 180 hours of students' work per semester).

In addition, I also offer regular seminars, programming and teamwork courses (project work), as well as special lectures in Theoretical Computer Science and related areas. In irregular intervals I also teach other beginners' courses. I have taught all basic subjects including Programming, Algorithms and Data Structures, Machine Architecture and Languages, Automata and Complexity several times.

(b) Special Courses and Seminars (in addition to regular research seminars):

Wintersemester 2013/2014:	Automata Theory and Logic (2 hpw + 2 hpw exercises)
	Complexity Theory (2 hpw + 2 hpw exercises)
Sommersemester 2013:	Sabbatical
Wintersemester 2012/2013:	Complexity Theory (2 hpw + 2 hpw exercises)

Sommersemester 2012: APT, continued (8 hpw)
 Petri Nets (2 hpw + 2 hpw exercises),
 APT: PG on Analysis of Transition Systems & Petri Nets (8 hpw)

Wintersemester 2011/2012: Automata Theory and Logic (2 hpw + 2 hpw exercises)
 Complexity Theory (2 hpw + 2 hpw exercises)

Sommersemester 2011: Petri Nets (2 hpw + 2 hpw exercises),
 Seminar: Business Process Management (2 hpw)

Wintersemester 2010/2011: Complexity Theory (2 hpw + 2 hpw exercises)
 Model Checking (2 hpw + 2 hpw exercises)
 Seminar: Computer Science in the Sixties (2 hpw)

Sommersemester 2010: Automata Theory and Logic (2 hpw + 2 hpw exercises),
 Seminars: Business Process Management and Verification (4 hpw)

Wintersemester 2009/2010: Complexity Theory (2 hpw + 2 hpw exercises)
 Seminar: Business Process Management Models (2 hpw)

Sommersemester 2009: Automata Theory and Logic (2 hpw + 2 hpw exercises),
 Petri Nets (2 hpw + 2 hpw exercises)

Wintersemester 2008/2009: Sabbatical

Sommersemester 2008: Petri Nets (2 hpw + 2 hpw exercises), STEGO (8hpw)

Wintersemester 2007/2008: Modelchecking (2 hpw + 2 hpw exercises)

Sommersemester 2007: Basic Logic (2 hpw + 2 hpw exercises),
 STETZ, continued (8hpw)

Wintersemester 2006/2007: Petri Nets, Part II (2 hpw + 2 hpw exercises)
 STETZ: Project Group on Tests (8 hpw)

Sommersemester 2006: Automata Theory and Logic (2 hpw + 2 hpw exercises),
 Efficient Algorithms (2 hpw + 2 hpw exercises)

Wintersemester 2005/2006: Theory of Computing (2 hpw + 2 hpw exercises)

Sommersemester 2005: Petri Nets (2 hpw + 2 hpw exercises),
 P-UMLaut, continued (8 hpw)

Wintersemester 2004/2005: Automata Theory and Logic (2 hpw + 2 hpw exercises)
 P-UMLaut: Project Group on UML and Petri Nets (8 hpw)
 Seminar on Cryptography (2 hpw)

Sommersemester 2004: Petri Nets (2 hpw + 2 hpw exercises),
 Cryptography (2 hpw + 2 hpw exercises)
 Seminar on Graph Theory (2 hpw)

Wintersemester 2003/2004: Sabbatical / KerMod, continued (8 hpw)

Sommersemester 2003: Petri Nets (2 hpw + 2 hpw exercises),
 KerMod: Project Group on Soft Skills, continued (8 hpw),
 Seminar on Applications of Petri Nets (2 hpw)

Wintersemester 2002/2003: Theory of Computing (2 hpw + 2 hpw exercises)
 Seminar on Real-Time Java (2 hpw)

Sommersemester 2002: Automata Theory and Logic (4 hpw + 2 hpw exercises)
 KerMod: Project Group on Soft Skills (8 hpw),

Wintersemester 2001/2002: Model-Checking based on Partial Orders (2 hpw)
 Seminar on Real-Time Java (2 hpw)

Sommersemester 2001: Petri Nets (3 hpw + 1 hpw exercises)
 The OS part of Beginners Lecture on Computing (due to illness
 of a colleague) (4 hpw + 2 hpw exercises, for 3 weeks in a row)

Wintersemester 2000/01:	Project Group on Bridge Programming, continued (8 hpw)
Sommersemester 2000:	Project Group on Bridge Programming (8 hpw)
	Theory and Games (3 hpw + 1 hpw exercises)
	Seminar on Modal Logic
Wintersemester 1999/00:	Automata Theory and Logic (4 hpw + 2 hpw exercises)
	Efficient Algorithms (2 hpw)
	Advanced Project: DNA Computing (4 hpw)

11 ADMINISTRATION

Administrative work at the Universität Oldenburg:

Recent (2011 to 2013):

Representative of the Department at the Convention of German Computer Science Faculties (Fakultätentag Informatik).

Past:

I have been elected Director of the Department of Computing Science on October 1, 2009, holding this post until September 30, 2010.

Almost starting simultaneously with my move to the University of Oldenburg (1996-97), I have been involved in the conception and the planning of new, modularised curricula in Computing Science. I have been instrumental both in changing the structure of the existing Diplom curriculum into a scheme supporting modularisation, as well as in conceiving and realising (including successfully accrediting) a BSc curriculum - one of the first in Germany. During this work, I have been a member in the Studienkommission (Board of Studies) from April 1998 to May 1999, and have also served as the Chairman of this Committee from November 1999 to March 2000.

In April 2000, for 2.5 years until the end of September 2002, I was elected Dean of the (then) Faculty of Computing Science. During this period, the Faculty successfully underwent its first External Research Evaluation (beginning of 2001), which is to be held every five years. Moreover, the University decided to merge the Faculties of Computing Science and the Faculty of Business Administration into a single, larger Faculty in 2002, creating, after an initial unsuccessful period of opposition, plenty of additional - but hopefully, transitional - work for us, and for me in particular.

Apart from these particularly time-consuming jobs, I also direct the Division of Parallel Systems, and I have been a member of the Diplomprüfungsausschuß (Committee for the Diplom Curriculum) between October 1998 and September 2002, serving as its Chairman between October 1998 and March 2000. On the University level, I have been the representative of our Faculty in a Senate Subcommittee dealing with Teaching (the Kommission für Lehre, Studium und Weiterbildung) between April 1999 and March 2001.

12 OTHER COURSES

I have been a lecturer in the Fourth Advanced Course on Petri Nets in Eichstätt (September 2003). I have also been invited to be a lecturer at the Fifth Advanced Course on Petri Nets in Rostock (September 2010), but was prevented by illness to attend. Nevertheless, my contribution was presented by Karsten Wolf and has since been published in the Proceedings (joint work with Harro Wimmel). Actually, I am the only person to have been a lecturer in **all five** Advanced Courses on Petri Nets that have been held between 1979 and 2012.

13 INVITATIONS, MEMBERSHIPS, REFEREEING

- I've been a reviewer for:
 - (i) Books: MIT Press, Springer-Verlag, Cambridge University Press;
 - (ii) Periodicals: Acta Informatica, Theoretical Computer Science, JCSS, Science of Computer Programming, Information and Computation, Advances in Petri Nets, MST, IPL, Fundamenta Informaticae, JCSS, Journal of Computer Science and Technology, The Computer Journal, and others;
 - (iii) Conferences: CONCUR, ICALP, STACS, International Conference on Applications and Theory of Petri Nets, MFCS, PSI, FSTTCS, ACSD, and others; miscellaneous Workshops.
 - (iv) Research grant bodies: Canadian Science Research Council, Commission of the European Communities, Deutsche Forschungsgemeinschaft, Studienstiftung des deutschen Volkes, British EPSC (Science and Engineering Research Council), DAAD, Alexander-von-Humboldt-Stiftung, Finnish Academy of Sciences (Centres of Excellence).
 - (v) Search Committees: Javier Esparza (Technical University of Munich, 2005), Agathe Merceron (TFH Berlin, 2006).
- Steering Committee, CONCUR series of yearly conferences, from 1990 to 2013 (voluntary resignation).
- Program Committee, PSI'2014 (Andrei Ershov Conference Series, St. Petersburg, June 2014).
- Program Committee, CONCUR'2013 (Buenos Aires/Argentina, August 2013).
- Program Committee, CONCUR'2012 (Newcastle upon Tyne/U.K., August 2012).
- Program Committee, CompoNet'12 (Hamburg, 2012).
- Program Committee, PSI'2011 (Andrei Ershov Conference Series, Novosibirsk, June 2011).
- Program Committee, CompoNet'11 (Paris, 2011).
- Program Committee, IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS (Chennai, December 2010).
- Program Committee, PSI'2009 (Andrei Ershov Conference Series, Novosibirsk, 2009).
- Program Committee, ICATPN'2009 (Paris, June 2009).
- Program Committee, CONCUR'2008 (Toronto/Canada, August 2008).
- Program Committee, ICATPN'2008 (Xi'an, China, June 2008).
- Program Committee, ACSD'04 (Hamilton/Canada, 2004).
- Program Committee, ICALP'2003 (Eindhoven, The Netherlands, June/July 2003).
- Program Committee, ICATPN'2003 (Eindhoven, The Netherlands, June 2003) – Theoretical Papers Chairman.
- Program Committee, CONCUR'2002 (Brno, July 2002).

- Program Committee, ACSD'01 (Newcastle upon Tyne, UK, June 2001) – invited but declined.
- Program Committee, ICATPN'2000 (Århus, Denmark, June 2000).
- Program Committee, CONCUR'2000 (Philadelphia, July 2000).

14 LECTURES GIVEN AND VISITS MADE

- Organisation of the following list: Location, date; topic of talk; duration of event.
- Madrid, 10.-14. March 2014 (LATA'14 [talk]); 5 days.
- Kloster Drübeck, 5.-7. March 2014 (DCON'13); 3 days.
- Paris, 6.-7. December 2013 (Habilitation Stefan Schwoon); 2 days.
- Dagstuhl, 11.-18. August 2013 (Individual Research Stay); 7 days.
- Königswinter, 6.-9. August 2013 (LATA'14 [talk]); 3 days.
- Oldenburg, 23. April 2013 (SCARE seminar); Some Remarks on Distributability; 1 day.
- Newcastle upon Tyne, 3.-8. September 2012 (CONCUR'12); 6 days.
- Tallinn, 27. March 2012 (ETAPS 2012 and POST 2012 [talk]); Selective Declassification; 7 days.
- Paris and Évry, September 30, 2011; Distributable Petri Nets; 30 days.
- Novosibirsk, June 27-July 2, 2011 (PSI'2011); Distributability; 7 days.
- Rennes, February 2011 (research visit); 28 days.
- Paris, 22. August - 11. September 2010 (CONCUR'10, SecCo'2010 [talk] and Research Visit); 20 days.
- Braga, 20.-26. June 2010 (Petri Nets 2010 [talk] and ART workshop); 6 days.
- Paris, 24.-25. November 2009 (Habilitation Franck Pommereau); 5 days.
- Bologna, 31. August - 6. September 2009 (CONCUR'09 and IFIP 2.2 meeting); 7 days.
- Rennes, 1.-28. February 2009 (Research Visit); Separability; 28 days.
- Paris, 27.-31. January 2009 (Research Visit); 5 days.
- Toronto, 12.-14. September 2008 (IFIP 2.2 meeting); Separability; 7 days.
- Toronto, 17.-24. August 2008 (CONCUR'08); 7 days.
- Reykjavik, 5.-12. July 2008 (SOS'08 and ICALP'08); Relational Semantics Revisited; 7 days.
- Xi'An, 21.-28. June 2008 (PN'08); Decomposition Theorems for Persistent Petri Nets; 7 days.
- Dagstuhl, 19.-21. May 2008 (TrustSoft Graduate School Meeting); 3 days.

- Klagenfurt, 22.-25. April 2008 (UNISCON-08); Slicing Technique for Business Processes; 4 days.
- LORIA Nancy, 16.-20. September 2007 (IFIP 2.2 meeting); Separability in Petri Nets; 4 days.
- Lisbon University, 3.-9. September 2007 (CONCUR'07); 4 days.
- Dortmund, 15. June 2004; Pomset-Equivalence in Petri Nets; 1 day.
- Lübeck, 26. November 2003; Pomset-Equivalence in Petri Nets; 1 day.
- Herrsching, 30. September - 2. October 2003 (Theorietag der GI - Gesellschaft für Informatik [talk]); Pomset-Equivalence in Petri Nets; 3 days.
- Universität Eichstätt, 15.-17. September 2003; Process Algebra; 3 days.
- Fachhochschule Stralsund, 20.-24. November 2002; Project Work on New Curricula (BLK-Projekt); 5 days.
- Brno University, 19.-25. August 2002 (CONCUR'02); Presentation of *PEP*; 7 days.
- Aalborg University, 19.-23. August 2001 (CONCUR'01); 4 days.
- University of Newcastle upon Tyne, 15.-18. August 2001; Project Work, 4 days.
- University of Newcastle upon Tyne, 25.-30. June 2001; 6 days.
- Universität Dortmund, 28. November 2000; Concurrency and Compositionality; 1 day.