Curriculum Vitae

Jens Chr. Godskesen

Date of Birth May 25, 1963

Position Head of Department

Address IT University of Copenhagen

Rued Langgaards Vej 7, DK-2300 Copenhagen S, Denmark

www.itu.dk/~jcg

Positions

• 2009 - present: Head of the Research Department at the IT University of Copenhagen.

- 1999 2009: Associate Professor at the IT University of Copenhagen.
- 2003-2004: External Associate Professor at Aalborg University
- 1998 1999: Research Assistant Professor at the Department of Information Technology, Technical University of Denmark.
- 1997 1998: External Associate Professor at Aalborg University, the Computer Science Department.
- 1996 1998: School of Computer Science at Roskilde Business College.
- 1996: Researcher at Research and Development Department, Tele Danmark. 1
- 1994 1996: Researcher at Tele Danmark Research (former TFL).
- 1991 1994: Ph.D. student at Aalborg University. Defended Ph.D.-dissertation August 1994.
- 1989 1991: Researcher at TFL (Telecommunication Research Laboratory).
- 1989: Research assistant at Aalborg University,

Leadership and Administration

- 2008: Founding member of the Center of Excellence MT-LAB. ²
- 2000-2003: Head of Open University at the IT University of Copenhagen.

Education

- 1994: Ph.D. in Computer Science, Aalborg University.
- 1988: M.Sc. in Computer Science and Mathematics, Aalborg University.

 $^{^{1}\}mathrm{The}$ former Tele Danmark Research was closed and staff transfered to Tele Danmark Research and Development.

 $^{^2 {\}tt www.mt-lab.dk}$

References

Journals

- [1] Lei Song, Lijun Zhang, Holger Hermanns, and Jens Chr. Godskesen. Incremental bisimulation abstraction refinement. *ACM Trans. Embed. Comput. Syst.*, 13(4s):142:1–142:23, July 2014.
- [2] Lei Song, Lijun Zhang, Jens Chr. Godskesen, and Flemming Nielson. Bisimulations meet pctl equivalences for probabilistic automata. Logical Methods in Computer Science, 9(2), 2013. The article is licensed under a Creative Commons license.
- [3] Mikkel Bundgaard, Thomas Hildebrandt, and Jens Chr. Godskesen. A CPS encoding of name-passing in higher-order mobile embedded resources. *Teo-retical Computer Science*, (special issue on Expressiveness in Concurrency, 356(3):422–439, May 2006.
- [4] Jens Chr. Godskesen. Connectivity testing. Formal Methods in System Design, 25(1):5–38, July 2004.
- [5] L. Bækgaard and J.C. Godskesen. Real-time events control in active databases. Journal of Systems and Software, 42(3):263-271, August 1998.
- [6] J.C. Godskesen and K.G. Larsen. Synthesizing distinguishing formulae for real time systems. Nordic Journal of Computing, 2:338–357, 1995.

Conference and Workshops

- [7] Lei Song, Lijun Zhang, and Jens Chr. Godskesen. Bisimulations and logical characterizations on continuous-time markov decision processes. In VMCAI, pages 98–117, 2014.
- [8] Lei Song, Lijun Zhang, Holger Hermanns, and Jens Chr. Godskesen. Incremental bisimulation abstraction refinement. In *Proceedings ACSD'13*, pages 11–20, 2013.
- [9] Lei Song and Jens Chr. Godskesen. Broadcast abstraction in a stochastic calculus for mobile networks. In *IFIP TCS*, volume 7604 of *Lecture Notes in Computer Science*, pages 342–356, 2012.
- [10] Lei Song, Lijun Zhang, and Jens Chr. Godskesen. Bisimulations meet pctl equivalences for probabilistic automata. In *Proc. CONCUR'2011*, volume 6901 of *Lecture Notes in Computer Science*, Aachen, Germany, September 2011. Springer-Verlag.
- [11] Lei Song and Jens Chr. Godskesen. Probabilistic mobility models for mobile and wireless networks. In *Theoretical Computer Science, IFIP Advances in Information and Communication Technology*, volume 323 of *TCS*, pages 68–100, Brisbane, Australia, September 2010. Springer-Verlag.
- [12] Jens Chr. Godskesen. Observables for mobile and wireless broadcasting systems. In *Proceedings of the 12th International Conference, COORDINATION 2010*, volume 6116 of *Lecture Notes in Computer Science*, pages 1–15, Amsterdam, The Netherlands, June 2010. Springer–Verlag.

- [13] Jens Chr. Godskesen and Sebastian Nanz. Mobility models and behavioural equivalence for wireless networks. In *Proceedings of the 11th International Conference*, *COORDINATION 2009*, volume 5521 of *Lecture Notes in Computer Science*, pages 106–122, Lisboa, Portugal, June 2009. Springer-Verlag.
- [14] Mikkel Bundgaard, Jens Chr. Godskesen, Bjorn Haagensen, and Hans Huttel. Decidable fragments of a higher order calculus with locations. In *Proceedings of the 15th International Workshop on Expressiveness in Concurrency, EXPRESS 2008*, Electronic Notes in Computer Science, Toronto, Canada, August 2008. Springer-Verlag.
- [15] Jens Chr. Godskesen. A calculus for mobile ad-hoc networks with static location binding. In *Proceedings of the 15th International Workshop on Expressiveness in Concurrency, EXPRESS 2008.*
- [16] Hans Huttel, Morten Kuhnrich, and Jens Chr. Godskesen. Verification of correspondence assertions in a calculus for mobile ad hoc networks. In *International Workshop on the Foundations of Coordination Languages and Software Architectures, FOCLASA 2008*, Electronic Notes in Computer Science, Reykjavik, Iceland, July 2008. Springer-Verlag.
- [17] Mikkel Bundgaard, Thomas Hildebrandt, and Jens Chr. Godskesen. Modelling the security of smart cards by hard and soft types for higher-order mobile embedded resources. In *In Proceedings of the 5th International Workshop on Security Issues in Concurrency (SecCo'07)*, Electronic Notes in Theoretical Computer Science. Elsevier, 2007.
- [18] Jens Chr. Godskesen. A calculus for mobile ad hoc networks. In *Proceedings* of the 9th International Conference, COORDINATION 2007, volume 4467 of Lecture Notes in Computer Science, pages 132–150, Paphos, Cyprus, June 2007. Springer-Verlag.
- [19] Jens Chr. Godskesen and Olena Gryn. Modelling and verification of security protocols for ad hoc networks using uppaal (extended abstract). In *Proceedings* of the 18th Nordic Workshop on Programming Theory (NWPT'06), Reykjavik, Iceland, October 2006.
- [20] Hans Huttel, Morten Kuhnrich, and Jens Chr. Godskesen. A distributed picalculus with anonymous moves (extended abstract). In *Proceedings of the 18th Nordic Workshop on Programming Theory (NWPT'06)*, Reykjavik, Iceland, October 2006.
- [21] Jens Chr. Godskesen. Formal verification of the ARAN protocol using the applied π-calculus. In Proceedings of Sixth International IFIP WG 1.7 Workshop on Issuses in the Theory of Security, (WITS), pages 99–113, Vienna, Austria, March 2006.
- [22] Jens Chr. Godskesen and Thomas Hildebrandt. Extending Howe's method to early bisimulations for typed mobile embedded resources with local names. In *Proceedings of FSTTCS'2005*, volume 3821 of *Lecture Notes in Computer Science*, pages 140–151, Hyderabad, India, December 2005. Springer–Verlag.
- [23] Mikkel Bundgaard, Thomas Hildebrandt, and Jens Chr. Godskesen. Semantics of higher-order mobile embedded resources with local names. To appear in Proceedings of Nordic Workshop of Programming Theory NWPT'05, Copenhagen, Denmark, October 2005.

- [24] Mikkel Bundgaard, Thomas Hildebrandt, and Jens Chr. Godskesen. A CPS encoding of name-passing in higher-order mobile embedded resources. In Proceedings of the 11th International Workshop on Expressiveness in Concurrency (Express), volume 128 of Electronic Notes in Theoretical Computer Science, pages 131–150. Springer-Verlag, April 2005.
- [25] Jens Chr. Godskesen, Brian Nielsen, and Arne Skou. Connectivity testing through model-checking. In Proceedings of International Conference on Formal Techniques for Networked and Distributed Systems (FORTE), volume 3235 of Lecture Notes in Computer Science, pages 167–184, Madrid, Spain, September 2004. Springer-Verlag.
- [26] Jens Chr. Godskesen and Thomas T. Hildebrandt. Copyability types for mobile computing resources. International Workshop on Formal Methods and Security, Nanjing, China, May 2003 (The workshop was postponed until 2004).
- [27] Jens Chr. Godskesen, Thomas Hildebrandt, and Vladimiro Sassone. A calculus of mobile resources. In *Proc. CONCUR'2002*, Lecture Notes in Computer Science. Springer-Verlag, 2002.
- [28] Jens Chr. Godskesen, Thomas Hildebrandt, and Vladimiro Sassone. An overview of MR, a calculus of mobile resources (short presentation). In *Proc.* LICS'2002. IEEE Computer Society, 2002.
- [29] J.C. Godskesen. Complexity issues of connectivity testing. In Proceedings of FATES'01, Aalborg University, August 2001.
- [30] J.C. Godskesen. Fault models for embedded systems. In *Proceedings of CHARME'99*, volume 1703 of *Lecture Notes in Computer Science*, Bad Herrenalb, September 1999. Springer-Verlag.
- [31] J.C. Godskesen. Test generation for embedded systems with redirected inputs. In *In proceedings of WSEST'99*, NIST, Gaithersburg, USA, November 1999.
- [32] J.C. Godskesen. Test generation for embedded systems with redirected outputs. In *Proceedings of HLDVT'99*, San Diego, November 1999.
- [33] J.C. Godskesen. Two algorithms for generating tests for embedded systems. In *Proceedings of ISCIS'99*, Kusadasi, October 1999.
- [34] J.C. Godskesen. Telecommunications service validation and interaction detection. In A. Yazici and U. Lalici, editors, Proceedings of the Eleventh International Symposium on Computer and Information Science, 1996.
- [35] S. Mørk, J.C. Godskesen, M.R. Hansen, and R. Sharp. A timed semantics for SDL. In Proceedings of the First Joined International Conference on Formal Description Techniques for Distributed Systems and Communication Protocols and Protocol Specification, Testing and Verification (FORTE/PSTV'96), University of Kaiserslautern, Department of Informatics, October 1996. Chapman & Hall.
- [36] J.C. Godskesen and K.G. Larsen. Synthesizing distinguishing formulae for real time systems –extended abstract. In *Proceedings of MFCS'95*, volume 969 of *Lecture Notes in Computer Science*. Springer–Verlag, 1995.
- [37] J.C. Godskesen. A formal framework for feature interaction detection with emphasis on testing. In K.E. Cheng and T. Ohta, editors, *Feature Interactions in Telecommunications Systems III.* IOS Press, 1995.

- [38] J.C. Godskesen and K.G. Larsen. Synthesizing distinguishing formulae for real-timed systems. In *Proceedings of the Fifth Nordic Workshop on Program Correctness*, number 18 in B, 1994.
- [39] J.C. Godskesen, K.G. Larsen, and A. Skou. Automatic verification of realtimed systems using epsilon (extended abstract). In Proceedings of the Fourtienth International IFIP Symposium on Protocol Specification, Testing and Verification, pages 323–330, June 1994.
- [40] J.C. Godskesen, K.G. Larsen, and A. Skou. Verification of real-timed applications using the epsilon system. In *Proceedings of the Nordic Seminar on Dependable Computing Systems*, August 1994.
- [41] K. Čerāns, J.C. Godskesen, and K.G. Larsen. Timed modal specifications theory and tools. In *Proceedings of CAV'93*, volume 697 of *Lecture Notes in Computer Science*, pages 253–267. Springer-Verlag, 1993.
- [42] J.C. Godskesen and K.G. Larsen. Real-time calculi and expansion theorems. In *Twelfth Conference on the FST and TCS*, volume 652 of *Lecture Notes in Computer Science*. Springer-Verlag, December 1992.
- [43] J.C. Godskesen and K.G. Larsen. Real-time calculi and expansion theorems (extended abstract). Technical Report 92–15, Proceedings of the First North American Process Algebra Workshop, August 1992.
- [44] J.C. Godskesen. An operational semantic model for basic SDL extended abstract. In *Proceedings of the Fifth SDL Forum SDL'91 Evolving Methods*. North-Holland, 1991.
- [45] J.C. Godskesen, K.G. Larsen, and M. Zeeberg. TAV (tools for automatic verification) users manual. Technical Report R 89–19, Department of Mathematics and Computer Science, Aalborg University, Denmark, 1989. Presented at workshop on Automatic Methods for Finite State Systems, Grenoble, France, June 1989.