

Curriculum Vitæ

for Nils Kammenhuber

Personal Data

Born	1975 (Saabrücken, Germany)
Address	Technische Universität München Institut für Informatik I-8 (Lehrstuhl für Netzwerkarchitektur) Boltzmannstraße 3 D-85748 Garching bei München
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Degrees

- Expecting doctorate (Dr. rer. nat) in 2007
Technische Universität München, Germany
- Diplom-Informatiker (MSc Computer Science)
Universität des Saarlandes, Saarbrücken, Germany
- Abitur
Gymnasium am Steinwald, Neunkirchen/Saar, Germany

Research Interests

In general: research in computer networks and communication systems.

In particular: dynamic aspects of Internet traffic; traffic measurements; characterization of user behavior; bridging the gap between theoretical models and operational practice

Education

Technische Universität München: since August 2002

PhD student and Research Assistant

Advisor: Prof. Anja Feldmann

Funding: DFG-Schwerpunktprojekt 1126 „Algorithmics of large networks“

Thesis: *Dynamic Routing And Traffic Engineering*; expecting to finish 1st quarter 2007

Universität des Saarlandes: July 2002

PhD student and Research Assistant

Advisor: Prof. Anja Feldmann

Universität des Saarlandes: October 1994 to July 2002

Student of Computer Science

Degree: Diplom-Informatiker (Master of Computer Science)

The University of Edinburgh: October 1997 to September 1998

Non-graduating Student (Computer Science and Artificial Intelligence)

Employment History

Intel Research (Cambridge, UK)

- January 2004 to May 2004: Research intern
Advisor: Dr. Lukas Kencl

Technische Universität München

- since August 2002: PhD student and Research Assistant, see “Education”

Universität des Saarlandes

- July 2002: PhD student and Research Assistant, see “Education”
- April 2000 to July 2000: Student Tutor, Computer Networks lecture
Prof. Anja Feldmann, Universität des Saarlandes, Saarbrücken, Germany
- February 1997 to September 1997: Student Assistant, Artificial Intelligence re-
search
Prof. Wolfgang Wahlster, Universität des Saarlandes, Saarbrücken, Germany

DFKI (Deutsches Forschungszentrum für Künstliche Intelligenz / German Research Center for Artificial Intelligence)

- November 2000 to March 2002: Student Assistant / Programmer, Artificial Intelligence research
Prof. Jörg Siekmann, DFKI, Saarbrücken, Germany
- May 1999 to December 1999: Student Assistant, Artificial Intelligence research
Prof. Jörg Siekmann, DFKI, Saarbrücken, Germany

Selected Publications

- Simon Fischer, Nils Kammenhuber, Anja Feldmann: *REPLEX—Dynamic Traffic Engineering Based on Wardrop Routing Policies*. Proceedings of the Conference on Future Networking Technologies (CoNEXT), Lisboa, Portugal, 2006
- Nils Kammenhuber, Julia Luxenburger, Anja Feldmann, Gerhard Weikum: *Web search clickstreams*. Proceedings of the Internet Measurement Conference (IMC), Rio de Janeiro, Brazil, 2006
- Lukas Kencl, Nils Kammenhuber: *Efficient Statistics Gathering from Tree-Search Methods in Packet Processing Systems*. Proceedings of the IEEE International Conference in Communications, Seoul, Republic of Korea, 2005
- Anja Feldmann, Nils Kammenhuber, Olaf Maennel, Bruce Maggs, Roberto De Prisco, Ravi Sundaram: *A Methodology for Estimating Interdomain Web Traffic Demand*. Proceedings of the Internet Measurement Conference, Taormina, Italy, 2004
- Amit Aggarwal, Tarun Aggarwal, Sumit Chopra, Anja Feldmann, Nils Kammenhuber, Piotr Krysta, Berthold Vöcking: *An Experimental Study of k -Splittable Scheduling for DNS-Based Traffic Allocation*. Proceedings of EURO-PAR, Klagenfurt, 2003

Teaching Experience

- Developed practical exercises for a course on Internet protocols, 1 semester
- Tutor for a practical course on programming networking protocols and applications, 2 semesters
- Tutor for a practical course on system performance analysis, 2 semesters
- Organised a seminar on Internet routing, 1 semester
- Advisor for several Diploma (Master) and Bachelor theses
- Advisor for students in various network-related seminars and practical works
- Tutor for computer science undergraduate courses, 4 semesters

Other Experiences

- October 2000 to July 2001 and October 2001 to July 2002:
Member of the Students' Parliament, Universität des Saarlandes, Saarbrücken, Germany
- May 1995 to September 1997 and October 1998 to August 2002:
Member of the Fachschaftsrat Informatik (Computer Science student representatives), Universität des Saarlandes, Saarbrücken, Germany

Programming Languages

- Java (very experienced)
- Perl (very experienced)
- Bourne shell (experienced)
- C (some experience)
- C++ (some experience)
- JavaScript (some experience)
- Prolog, ML/SML/OCaML/..., Pascal, PostScript (basic knowledge)

Operating Systems

- Linux: very experienced; some administration knowledge
- other Unix or BSD derivatives: experienced
- Windows: experienced
- OS/2: some experience
- PalmOS: some experience

Languages

- German: native
- English: fluent (5 years in school; $1\frac{1}{4}$ year abroad)
- French: fluent (7 years in school)
- Bulgarian: beginner
- Spanish: beginner
- Italian: some knowledge
- Dutch: some knowledge
- Russian: some knowledge
- Portuguese: some knowledge