

Mario Schlosser - Curriculum Vitae

Particulars

Education

- University of Trier: Computer Linguistics, Political Science, Media Science. Oct. 1997 - March 1998, Trier, Germany.
- University of Hannover: Electrical Engineering. March 1998 - Jan. 2003, Hannover, Germany.

Current Status

- Citizen of Germany

Academic Honors

- Best Poster Award at International Semantic Web Conference, 2002
- German Academic Exchange Organisation (DAAD) Scholarship to sponsor research at Stanford University, 2002
- Philips Award and Philips Student Program member for best intermediate diploma in Electrical Engineering, University of Hannover, 1999
- Siemens Scholarship, 1998 - 2002
- National first award for Outstanding Work in the Field of Information Technology, awarded by Eduard-Rhein-Foundation, 1997
- First place in state competition of Jugend Forscht (German national competition for young scientists), fourth place in national competition, several exceptional awards, 1997

Research Experience

- Database Group and Semantic Web Research Group, Stanford University, Jan. - Nov. 2002. Development of algorithms to organize content on distributed networks.
- Hannover Medical School and Institute for Microelectronic Systems, Oct. 2000 - June 2001. Development of algorithms for predicting and preventing cardiac rhythm disturbances following open heart surgery. Design and implementation of a complete digital chip design capable of processing monophasic action potentials from the human heart and automatically predicting the onset of atrial fibrillation after cardiac surgery. This work led to an ongoing joint project between industry and academia to extend the core design to a fully operable system to be used in intensive care units.
- Institute for Theoretical Communications Engineering (Institut für Theoretische Nachrichtentechnik), University of Hannover, Oct. 2000 - April

2001. Development and coding of algorithms for computer vision and pattern recognition, particularly tracking of faces and facial features.

- Institute for Microelectronic Systems, University of Hannover, Sep. 1998 - Sep. 1999. Development and coding of algorithms for formal verification of analog circuits.

Work Experience

- Associate, McKinsey & Company, Germany, Nov. 2002 - present. Primarily working with European clients in telecommunications and high-tech sectors.
- Infineon Technologies, San Jose, California, July - Dec. 2001.
- Programmer and systems engineer, Viscom AG, Germany, Feb. - May 1999.
- Mechanical and electrical engineering, Opel AG, Germany, Sep. - Oct. 1998 and 1999.

Teaching Experience

- Institute for Microelectronic Systems and Institute for Digital Systems Design, University of Hannover, January - June 2000. Preparing and tutoring a course on digital chip design, guiding student teams in designing and implementing a complete and ready-to-use least-cost-router chip design.

Publications

- Mayank Bawa, Qi Sun, Patrick Vinograd, Beverly Yang, Brian F. Cooper, Arturo Crespo, Neil Daswani, Prasanna Ganesan, Hector Garcia-Molina, Sepandar Kamvar, Sergio Marti, Mario Schlosser, "Peer-to-peer research at Stanford", ACM SIGMOD Record, Volume 32, Issue 3, Sept. 2003.
- Sepandar D. Kamvar, Mario Schlosser, Hector Garcia-Molina, "Incentives for Combatting Freeriders on P2P Networks", Proceedings of Euro-PAR European Conference on Parallel Computing, Aug. 2003.
- Wolfgang Nejdl, Martin Wolpers, Wolf Siberski, Christoph Schmitz, Mario Schlosser, Ingo Brunkhorst, Alexander Löser, "Super-peer-based Routing Strategies for RDF-based P2P Networks", Elsevier's Journal of Web Semantics 2003.
- Sepandar D. Kamvar, Mario Schlosser, Hector Garcia-Molina, "The EigenTrust Algorithm for Reputation Management in P2P Networks", Proceedings of the Twelfth International World Wide Web Conference, May 2003.
- Mario T. Schlosser, Tyson E. Condie, Sepandar D. Kamvar, "Modeling Interactions in P2P Networks", Proceedings of 1st Workshop on Semantics in Peer-to-Peer and Grid Computing, May 2003.
- Wolfgang Nejdl, Martin Wolpers, Wolf Siberski, Christoph Schmitz, Mario Schlosser, Ingo Brunkhorst, Alexander Löser, "Super-Peer-Based Routing and

Clustering Strategies for RDF-Based P2P Networks", Proceedings of the Twelfth International World Wide Web Conference, May 2003.

- Mario Schlosser, Michael Sintek, Stefan Decker, Wolfgang Nejdl, "HyperCuP - Hypercubes, Ontologies and Efficient Search on P2P Networks", Springer Lecture Notes on Computer Science, Vol. 2530 – Agents and Peer-to-Peer Systems and Proceedings of 1st Workshop on Agents and P2P Computing, Autonomous Agents and Multi-agent Systems AAMAS02, July 2002.
- Mario Schlosser, Michael Sintek, Stefan Decker, Wolfgang Nejdl, "A Scalable and Ontology-based P2P Infrastructure for Semantic Web Services", Proceedings of IEEE P2P2002, International Conference on Peer-to-Peer Computing, Sept. 2002.
- Mario Schlosser, Michael Sintek, Stefan Decker, Wolfgang Nejdl, "A Scalable and Ontology-based P2P Infrastructure for Semantic Web Services", poster presented at ISWC2002, International Semantic Web Conference, June 2002.
- Mario Schlosser, "Sinnvolle Computersteuerung - Bewegende Augenblicke", A system to control the computer via your eyes (in German), Informatik/Informatique 1/1998, Journal of the Fédération Suisse des Organisations d'Informatique, pp. 35 - 36.
- Patent: Eigentrust, filed in November 2003.

Other Reports

- Mario T. Schlosser, "Semantic Web Services", Masters Thesis Report, Dec. 2002.
- Mario T. Schlosser, "Designing and implementing an analysis chipset for predicting the onset of post-surgery atrial fibrillation" (in German), Study Thesis Report, Dec. 2002.
- Mario Schlosser, Carsten Malonnek, Erich Barke, "A One-Chip Solution for Automated Prediction of Atrial Fibrillation after Cardiac Surgery", Technical Report, Department of Thoracic and Cardiovascular Surgery at Hannover Medical School and Institute for Microelectronic Systems, July 2001.
- Mario Schlosser, Erich Barke, "A Tool for Standardizing the Decision on the Design Style in an ASIC Design Flow", Technical Report, Infineon Technologies and Institute for Microelectronic Systems, July 2000.

Talks

Conference Talks

- "Incentives for Combatting Freeriders on P2P Networks", European Conference on Parallel Computing, Aug. 2003.
- "HyperCuP - Hypercubes, Ontologies and Efficient Search on P2P Networks", 1st Workshop on Agents and P2P Computing, Bologna, July 2002.

- "An Ontology-based P2P Infrastructure for Semantic Web Services", 3rd PADLR (Personalized Access to Distributed Learning Repositories) Workshop, Stanford University / University of Hannover, Sept. 2002.

Industry/Other Talks

- "Semantic Web Services", Institute of Microelectronic Systems and Circuits, University of Hannover, Oct. 2002.
- ISI, University of Southern California, August 2002.
- "HyperCuP - Hypercubes, Ontologies and P2P Networks", Stanford Peers Group, Learning Lab Lower Saxony (L3S), 2002.
- "Prediction and Prevention of Cardiac Rhythm Disturbances Following Open Heart Surgery", Medtronic Inc., Minneapolis, Oct. 2001.
- "Designing and implementing an analysis chipset for predicting the onset of post-surgery atrial fibrillation", Institute of Microelectronic Systems, University of Hannover, June 2001.
- "A system to control the computer with the help of eye movements for physically disabled people", University of Cologne, Feb. 1998.
- "Development of a system to control the computer with the help of eye movements", various venues, Jugend Forscht national competition, 1996/97.

Professional Activities

- Program Committee Member, Workshop on Semantics in Peer-to-peer and Grid Computing, Hungary, 2003 (at WWW 2003). SemPGrid Workshop, ???, 2004 (at WWW 2004). Workshop on Trust, Security, and Reputation on the Semantic Web, Hiroshima, 2004 (at ISWC 2004).
- Reviewer, Semantic Web Conference 2002 and 2003.
- Elected chairman of VDE YoungNet, German nationwide organization for students of electrical engineering and computer science, 2000 - 2002. Head of organization of e-studentday 2000, international convention for students of electrical engineering on World Exhibition EXPO 2000, Germany, September 2000.

Languages

- Native language German. Proficient in English and French. Working knowledge of Spanish.