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Curriculum vitae

Personal data

Born on November 6th, 1957 in Wrocław, Poland. Citizen of Poland and Sweden. Married (since 1982), one child (born 1986). Native language: Polish. Other languages known: English and Swedish (very well), French and Russian (satisfactorily).

Home address: Råbygatan 11B 223 61 Lund, Sweden tel. +46 46 129593

Education

1981 - 1985	graduate studies, Institute of Technical Cybernetics, Technical Uni-
	versity of Wrocław, Wrocław, Poland
1976 - 1981	undergraduate studies, Department of Electronics, Technical Univer-
	sity of Wrocław, Wrocław, Poland
1972 - 1976	high school, Wrocław, Poland
1964 - 1972	primary school, Wrocław, Poland

Degrees received

- 06.2002 docent, Lund University, Lund, Sweden
- 02.2000 professor, Mälardalens Högskola, Västerås, Sweden
- 07.1987 PhD, Technical University of Wrocław, Wrocław, Poland, thesis title: Pewna metoda reprezentacji wiedzy o dynamicznym otoczeniu robota (A Method of Representing Knowledge about the Dynamical Environment of a Robot)
- 04.1981 MSc, Technical University of Wrocław, Wrocław, Poland, thesis title: System generacji i wykonywania planów działań robota III generacji (A Plan Generation and Execution System of 3rd Generation Robot)

Academic Positions

08.1999 - present	Associate Professor (universitetslektor), Department of Com-
	puter Science, Lund University, Sweden
02.2000 - 07.2000	Full Professor, Department of Computer Engineering,
	Mälardalens Högskola, Sweden
12.1995 - 02.2000	Associate Professor (universitetslektor), Department of Com-
	puter Engineering, Mälardalens Högskola, Sweden
07.1992 - 06.1998	Research Associate (forskarassistent), Department of Com-
	puter and Information Science, Linköping University, Sweden
05.1990 - 06.1992	Guest Researcher (gästforskare), Department of Computer and
	Information Science, Linköping University, Sweden
02.1989 - 05.1990	Assistant Professor (adiunkt), Institute of Technical Cybernet-
	ics, Technical University of Wrocław, Wrocław, Poland
06.1986 - 01.1989	Senior Assistant (starszy asystent), Institute of Technical Cy-
	bernetics, Technical University of Wrocław, Wrocław, Poland
08.1984 - 05.1986	Assistant (asystent), Institute of Technical Cybernetics, Tech-
	nical University of Wrocław, Wrocław, Poland
06.1982 - 07.1984	Assistant (asystent), Institute of Automation, Świętokrzyska
	Polytechnic, Kielce, Poland
06.1981 - 05.1982	Junior Assistant (asystent stażysta), Institute of Automation,
	Świętokrzyska Polytechnic, Kielce, Poland

In particular, I have been evaluated as fulfilling the professor competence level in Computer Science at Mälardalens Högskola and granted professorship in February 2000.

Publications

I have (co)authored more than 60 papers, obtained 3 patents, and I am the (co)author of 36 technical reports.

Recent Invited Presentations

- February 2007, Olsztyn University, Poland
- January 2007, TU Clausthal, Germany
- May 2005, Bergen University, Norway
- October 2003, National Conference on Robotics, Poland

Participation in Programme Committees

- Workshosp on Logics for Resource Bounded Agents, 2007, 2006;
- SAIS (Swedish AI Society) Workshops, 2007, 2006, 2005;
- AILS 2004, Second Joint Workshop, Lund, 2004 (PC Chair);
- SAIS and SSLS 2003, First Joint Workshop, rebro, April 2003;

- Conference and Workshop on Engineering of Computer-Based Systems, 2004, 2003, 2002, 1995;
- IFAC/IFIP Workshop on Real Time Programming, 2003, 2000
- International Conference in Computing CIC-2002;
- Mexican International Conference on Artificial Intelligence 2006, 2004, 2002;
- Scandinavian RoboCup Committee 1997–1999;
- Scandinavian Conference on Artificial Intelligence, 1997;
- ECAI'92 Workshop on Specification of Complex Reasoning Systems, 1992.

Refereeing

During the last five years I have been appointed as a referee in a number of lecturer employment procedures at Örebro University, Blekinge Technical University and Mälardalen University College.

I have been a referee for the *Robotics and Autonomous Systems* journal, *Applied Intelligence* journal, *Systems Science Journal* and the *Software — Practice and Experience* journal.

Moreover I have been a referee for numerous conferences and workshops in my area of expertise.

Participation in Graduate Examination Committees

I have served as a primary referee (opponent) during PhD defence of Wen Cao at the University of Tromsø, Norway, in December 1997, of Choong-ho Yi at the University of Linköping, Sweden, in October 2002 and of Thomas Ågotnes at the Bergen University, Norway, in June 2004.

I have also been appointed as a member in examination committees during the following PhD defences: Jonas Mellin (Skövde), Jonas Kvarnstrm (Linköping), Jens Månsson (Lund), Patrik Hasslum (Linköping), Magdalene Grantson Borgelt (Lund), Li Jun (Örebro), Jens K. Andersson (Lund).

In 2000 I have served as the opponent for a licentiate thesis defence at the Linköping University, Sweden.

Formal pedagogical education

I have taken a one-year-long pedagogical course (6 hrs/week) in the academic year 1985/86 at the Technical University of Wrocław, Poland. I have also taken part in a course on supervision of graduate students (forskarhandledningkurs) organized by the University of Linköping in February 1994. In 1999 I have taken a Leadership Course at the Mälardalen University College.

Graduate-level supervision

Since 1990 I have supervised several graduate students as the supporting supervisor (biträdande handledare). During this period three of them have successfully defended their licentiate theses (Magnus Morin, "Predictable Cyclic Computations in Autonomous Systems: A Computational Model and Implementation", Linköping Licentiate Thesis No 352, 1992, Per Österling, "Symbolic Modelling of the Dynamic Environments of Autonomous Agents", Linköping Licentiate Thesis No 561, 1996) and one student has succesfully defended her PhD thesis (Simin Nadjm-Tehrani, "Reactive Systems in Physical Environments: Compositional Modelling and Framework for Verification", Linköping, Dissertation No 338, 1994).

The first student whom I was the primary supervisor for, Man Lin, has presented her licentiate thesis ("Formal Analysis of Reactive Rule-Based Programs", Linköping Licentiate Thesis No 643, 1997) and successfully defended her PhD "Analysis and Synthesis of Reactive Systems: A Generic Layered Architecture Perspective" in January 2000.

I currently supervise three PhD students at Lund University.

Undergraduate-level supervision

I have supervised more than 30 examination projects since 1996.

Besides I was a member of the Masters degree examination committee at the Department of Electronics, Technical University of Wrocław, Poland. In 1993 I have been several times appointed the function of external examinator (ekstraordinær sensor) at the Faculty of Electrical Engineering and Computer Science of the University of Trondheim, Norway. Moreover, usually I was the examinator for the undergraduate and graduate courses (or their parts) I have taught. Currently I am an examinator for undergraduate examination theses at the Computer Science Department, Lund University.

Teaching Experience

Undergraduate courses given in Sweden

04, 05	TNE 701: Robot design (Summer course, for BEST stu-
	dents)
04/05, 05/06	DAT501: Introduction to OOP Programming, Lund Univer-
	sity (LU)
99/00, 01/02, 03/04	DAT117: Machine Learning, LU
00/01, 01/02, 02/03,	
03/04, 04/05, 05/06	DAT125: AI for robots, LU
00/01, 01/02, 02/03,	
03/04, 04/05, 05/06,	
06/07	DAT032: Introduction to AI, LU
99/00, 00/01	DAT401: Discrete Mathematics, LU
99/00	DAT112: Operating systems, LU

98/99	MM1510: Discrete Mathematics, Mälardalens Högskola
	(MDH),
98/99	CD5310: Multi-agent systems: RoboCup, MDH,
98/99	CD5300: C Programming for engineers, MDH,
98/99	CD5110: Compiler theory, MDH,
96/97	CD2490: Introduction to Computer Science, MDH,
96/97, 97/98	CD2630: Automata, computations and formal methods,
	MDH,
98/99	CD5110: Artificial Intelligence, MDH
95/96, 96/97, 97/98	CD2770: Artificial Intelligence, MDH
95/96, 96/97, 97/98	TDDA14: Artificial Intelligence Programming, Linköping
	University (LiU)
95/96, 96/97	ETE 137: How to build and control your own mobile robot,
	LiU
94/95, 95/96	HIBA 01, HIBA08: Introduction to programming and com-
	puter engineering, LiU

Participation in undergraduate courses given at the Technical University of Wrocław, Poland

1989	Lisp (4th year course, 30h lecture, 60h laboratory)
1989	Simulation and Modelling (4th year course, 30h lecture, 30h sem-
	inar)
1989	Automation — Devices and Equipment (4th year course, 105h
	laboratory, 30h project supervision)
1988, 1989	Automation Devices – Design and Assembly (4th year course,
	60h laboratory, 30h project supervision)
1988	Knowledge Representation (4th year course, 30h lecture)
1988	PASCAL Programming Language (2nd year course, 45h labora-
	tory)
1982, 1983	Robotics (3rd year course, 30h lecture)
1982	Systems Theory (3rd year course, 30h class)

Graduate courses given at Linköping University, Sweden

1997	Discrete Systems Modelling (an ECSEL course, coordinated by
	Chris Kuchciński)
1996	Formal specification of reactive systems: theory and practice
	(prepared together with Simin Nadjm-Tehrani)
1995	Situated robotics
1994, 1998	Systems Modelling
1992, 1996	Introduction to mathematical systems theory
1991, 1994	Architectures of Intelligent Autonomous Systems

I have also been a lecturer at the 2nd Summer School on Mobile Robotics in Zakopane, Poland, 1999.

Administrative Experience

Since March 1st, 2002, I have been appointed the deputy director of the Department of Computer Science, Lund University. I have been the member of the department board (styrelsen) since 2002. Since January 2005 I am the head of the theoretical computer science division at the department. I am also heading the Research and Graduate Education Committee at the Department since its creation in 2002. I am heading the AI@CS research group at the department (http://ai.cs.lth.se).

During the academic year 98/99 I have been the leader of the Computer Science Laboratory at the Department of Computer Engineering, Mälardalen University. I have also been appointed the director of the graduate school at the Department. I have been the member of the executive group (ledningsgruppen) at the Department of Computer Engineering during 98/99. I have also been chosen to the Steering Committee (styrelsegruppen) for the research project STINA involving ABB Automation Products, AB and IDt, MDH.

Since fall 1990 I have taken care of a research group (consisting of graduate students and myself) within the Laboratory of Representation of Knowledge in Logic (RKLLAB), Department of Computer and Information Science (IDA), Linköping University. The group worked on several research projects, the largest belonging to the PROMETHEUS/Sweden programme, and since 1991 to the RTI/Sweden programme. Since January 1996 I have been the member of the Autonomous Systems Laboratory (TASLAB) at IDA, where I was responsible for research on autonomous intelligent real-time systems. Before that, since 1986 until April 1990 I simultaneously led two research groups working on: theory of knowledge representation and Lisp Machine prototype design and construction. During 1987 and 1988 I also managed a team of researchers working on visual oscillogram registration.

During last five years I have been coordinating undergraduate courses (kursansvarig) at IDA, LiU, at IDt, MDH and at the Department of Computer Science, Lund University.

Membership

American Association for Artificial Intelligence (AAAI), Swedish Society for Artificial Intelligence (SAIS), Institute of Electrical and Electronics Engineers (IEEE).

Popularisation activity

I have taken part in the last five editions of the information days for high-school students (Naturvetardagar), organised by Lund University. Our lecture, Konstgjord intelligens (artificial intelligence), has attracted a large number of students and was given four to six times each year. I have given two of the lectures each year. Besides, I have taken part in information meetings for student councellors at high schools (studievägledare).

I have supervised student projects at secondary schools in Lund and Landskrona.

Industrial Experience

I have spent 6 months of 1988 working in the Research and Development Group of MERA-ZAP factory (currently owned by ABB) in Ostrów Wielkopolski, Poland. I have taken part in development of control system for industrial robots IRp-6/60 (The mechanical part of the robot is based on the ASEA licence for IRB family of robots).

In the 1987-89 period I did some (about three manmonths) consultancy for ABC Data, GmbH, a small German computer company based in Bonn.

Recent Grants

07.2005 - now	Skill-based Inspection and Assembly for Reconfig-
	urable Automation Systems,
	A Specific Targeted Research Project of the 6th FP of the
	European Commission, 4MSEK;
07.2005 - 06.2006	Robot Laboratory
	Crafoordska Stiftelsen, 150kSEK;
05.2001	travel grant from Stiftelsen Bökelunds fond för reses-
	tipendier, 20kSEK;
07.2000 - 06.2001	Robot cooperation
	Royal Academy of Sciences, 30kSEK;
01.2000 - 06.2001	Research and education in Artificial Intelligence
	Lund University, 300kSEK;
01.1999 - now	Domain-dependent aspects of the search quality in
	evolutionary algorithms
	a project for Volvo Research Foundation, 350 kSEK/year ;
1995 - 1998	Software Architecture for Autonomous Intelligent
	Real-Time Systems
	a project for TFR (The Swedish National Board for Technical
	Research), 300 kSEK/year;
1992 - 1997	Autonomous Real-Time Systems
	a project for CENIIT (Center for Industrial Information Tech-
	nology, Linköping, Sweden), 375 kSEK/year;
1994 - 1996	Software Architecture for Intelligent Real-Time Sys-
	tems
	a project for Volvo Research Foundation, 300 kSEK/year;
1992 - 1993	A Software System for Real-Time Real-World Envi-
	ronments
	a project for NUTEK (The Swedish National Board for In-
	dustrial and Technical Development), 390 kSEK/year;
1991 - 1994	Driver Information Unit
	a project within the DALTM (Driver Assistance and Local
	Traffic Management) consortium participating in the Swedish
	RTI program, 800 kSEK/year;