

SUMMARY SHEET: FRANZ J. KURFESS¹

Education

- Masters (“Diplom-Informatiker”) and Ph.D. (Dr. rer. nat.) in Computer Science, Technical University of Munich, Germany

Work and Professional Experience

- substantial experience in teaching and research at institutions in North America and Europe
- acquisition and management of research projects with funding agencies and companies in the North America and Europe
- ability and willingness to take on the challenges of developing research and teaching programs
- editorial board member and guest editor of international scientific journals
- involvement in organization of conferences and workshops in various functions

Research

- development of a research program centered around computer-based systems for knowledge and information management, which deals with the acquisition, representation, implementation, and usage of knowledge and information in a variety of formats
- awarded grants from Cal Poly, State of California, BaCaTec, Hewlett Packard
- collaboration within several research centers, and with partners from various departments and institutions
- Internet2 Champion at Cal Poly SLO, Spring 2004 – now
- Director of the Software Engineering Lab at NJIT, Aug. 95 – June 99
- Associate Director of the Electronic Enterprise Engineering Initiative at NJIT, Nov. 96 – June 99

Teaching

- broad background in the core areas of computer and information science
- taught about fifteen different courses in computer science at the graduate and undergraduate level
- new development or substantial revision of seven courses, many in emerging areas without established teaching materials
- taught fifteen tutorials and short courses on cutting-edge topics at conferences and continuing education programs
- recipient of three departmental “Excellence in Teaching” awards at NJIT
- advisor of five Ph.D. students, about 150 Master’s projects or theses, and around eighty Senior projects
- responsible for the development of an interdisciplinary, comprehensive curriculum (B.S., M.S., Ph.D.) in “Electronic Enterprise Engineering” at NJIT
- developed and taught distance learning courses

Service

- participation in committees at the department, college and university level
- active member of the scientific community, e. g. reviewing, conference organization, professional societies

Publications

- editor of three special journal issues and six conference proceedings
- author of one book (one more in progress), nine book chapters, seven journal papers (several in progress), about fifty conference papers, and numerous technical reports

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CURRICULUM VITAE

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EDUCATION

- Technical University Munich, Computer Science Department** July, 1990
Doctorate in Computer Science (Dr. rer. nat.). Dissertation on “Parallelism in Logic – Its Potential for Performance and Program Development”.
- Technical University Munich, Computer Science Department** May, 1984
Diploma in Computer Science. Thesis on a device for the automatic adjustment of the light intensity in an optical local area network.

WORK EXPERIENCE

- California Polytechnic State University, Computer Science Department;**
San Luis Obispo, CA Sep. 00 - present
Associate/Full Professor
- Concordia University, Computer Science Department;** Montreal, Canada July 99 - July 00
Associate Professor
- New Jersey Institute of Technology, Newark, NJ**
Graduate Advisor, Masters in Computer Science Program Aug. 97 - Jan. 99
Associate Director Electronic Enterprise Engineering Program Nov. 96 - June 99
Co-Director/Director Software Engineering Lab Aug. 95 - June 99
- Rutgers University, Management Graduate School;** Newark, NJ May 95 - June 99
Associate Member of the Ph.D. in Management faculty.
- New Jersey Institute of Technology, Newark, NJ** Sep. 94 - June 99
Assistant Professor. Teaching in Computer Science, Information Systems. Research in knowledge-based systems, software engineering, electronic enterprise engineering.
- University of Ulm, Germany** Jan. 92 - Aug. 94
“Akademischer Rat” (Assistant Professor, tenured). Teaching and research in computer science and neural networks, particularly integration of symbolic and non-symbolic paradigms for knowledge processing.
- International Computer Science Institute, Berkeley, CA** Jan. 90 - Sep. 91
Guest researcher / Postdoctoral fellow. Research and implementation of inference mechanisms based on massively parallel connectionist models.
- Sonoma State University, Rohnert Park, CA** Jan. 90 - June 90
Guest Lecturer. Taught courses on data structures and algorithms, operating systems and assembly language programming.
- Technical University Munich, Germany** Nov. 84 - Nov. 89
Research Scientist. Design of a parallel inference machine based on Transputers within the framework of the European ESPRIT project; representative for the Working Group on Architecture and Applications, ESPRIT 415.

TEACHING EXPERIENCE

The following listing contains the courses, seminars, and tutorials that I have taught. It is arranged in reverse chronological order. Courses newly developed or substantially revised by me are marked as “new” or “revised”. Not explicitly listed here are independent study courses, (pre-)doctoral research, and the supervision of theses and projects.

Courses

Vilnius University, Lithuania

- Computer Support for Knowledge Management, User-Centered Design, and the Use of Internet2 for Education (Compact Course) spring 2008 revised

Universität Ulm

- Computer Support for Knowledge Management (Compact Course) spring 2008 revised

California Polytechnic State University

- CSC 581: Usability and Knowledge Management (with lab) spring 2007 revised
- CPE/CSC 484: User-Centered Interface Design and Development (with lab) winter 2007
- CPE/CSC 480: Artificial Intelligence (2 sections, with labs) fall 2006
- CSC 580: Artificial Intelligence - Intelligent Agents (with lab) spring 2006 revised
- CPE/CSC 486: Human-Computer Interaction spring 2006 new
- CPE/CSC 481: Knowledge-Based Systems (with lab) winter 2006
- CPE/CSC 484: User-Centered Interface Design and Development (with lab) winter 2006
- CPE/CSC 480: Artificial Intelligence (2 sections, with labs) fall 2005
- CSC 581: Knowledge Management (with lab) spring 2005 revised
- CSC X317/CPE 250: Systems Programming (with lab) spring 2005
- CPE/CSC 484: User-Centered Interface Design and Development (with lab) winter 2005 revised
- CPE/CSC 481: Knowledge-Based Systems (with lab) winter 2005
- CPE/CSC 480: Artificial Intelligence (2 sections, with labs) fall 2004
- CSC X317/CPE 250: Systems Programming (2 sections, with labs) spring 2004
- CSC 580: Intelligent Agents (with lab) winter 2004 expanded
- CPE/CSC 481: Knowledge-Based Systems (with lab) winter 2004
- CPE/CSC 480: Artificial Intelligence (2 sections, with labs) fall 2003 revised
- CSC X490: Internet2 spring 2003 new
- CSC 580: Knowledge Management (with lab) spring 2003 expanded
- CPE/CSC 481: Knowledge-Based Systems (with lab) winter 2003
- CSC 300: Professional Responsibilities winter 2003
- CPE/CSC 480: Artificial Intelligence (2 sections, with labs) fall 2002
- CSC 580: Intelligent Agents (with lab) spring 2002 revised
- CPE/CSC 101: Fundamentals of Computer Science (with lab) spring 2002
- CSC X490: Computer Science Colloquium Series spring 2002 new
- CPE/CSC 481: Knowledge-Based Systems (with lab) winter 2002
- CPE/CSC 101: Fundamentals of Computer Science (with lab) winter 2002
- CSC 480: Artificial Intelligence (2 sections, with labs) fall 2001
- CSC 580: Knowledge Management (with lab) spring 2001 new
- CPE/CSC 481: Knowledge-Based Systems (with lab) winter 2001 revised
- CPE/CSC 205: Software Engineering (with lab) winter 2001 revised
- CPE/CSC 480: Artificial Intelligence (2 sections, with labs) fall 2000 revised

Concordia University

- COMP 675: Human-Computer Interface Design spring 2000
- COMP 346: Operating Systems spring 2000
- COMP 675: Human-Computer Interface Design fall 1999 revised

New Jersey Institute of Technology

- CIS 332: Principles of Operating Systems spring 1999
- CIS 332: Principles of Operating Systems (3 sections) fall 1998
- Intelligent Agents (short course) Universität Ulm summer 1998 revised
- CIS 786: Concurrent and Integrated Design Strategies: From Virtual Enterprises to Real Companies spring 1998 new
- CIS 332: Principles of Operating Systems (3 sections) spring 1998 revised
- CIS 786: Integrated Product and Process Development (with Murat Tanik) fall 1997 new
- CIS 332: Principles of Operating Systems (3 sections) fall 1997
- CIS 786: Intelligent Agents spring 1997 new
- CIS 332: Principles of Operating Systems (3 sections) spring 1997
- Expert Systems fall 1996 revised
- CIS 332: Principles of Operating Systems (2 sections) fall 1996
- CIS 332: Principles of Operating Systems (3 sections) spring 1996
- CIS 332: Principles of Operating Systems (2 sections) fall 1995
- CIS 332: Principles of Operating Systems (2 sections) spring 1995
- CIS 332: Principles of Operating Systems fall 1994

Universität Ulm

- Knowledge Processing with Neural Networks spring 1994 new
- Introduction to Computer Science (programming exercises) winter 1993
- Parallel Inference Mechanisms winter 1993 new

Sonoma State University

- Assembly Language Programming (with labs) spring 1990
- Systems Programming spring 1990
- Data Structures and Algorithm Analysis spring 1990

Seminars

California Polytechnic State University

- CSC 490: Current Topics in Computer Science (in conjunction with the Computer Science Centennial Colloquium Series) spring 2002

New Jersey Institute of Technology

- Knowlets: Components for Knowledge Management spring 1999
- Knowledge and Information Management fall 1998
- Intelligent Agents for Enterprises spring 1998
- Electronic Enterprise Engineering fall 1997

- Web Agents spring 1997
- Neural Networks fall 1996
- Neural Networks spring 1996
- Neural Networks for Robotics fall 1995
- Knowledge Processing with Neural Networks spring 1995

Universität Ulm

- Massively Parallel Computer Architectures and their Suitability for Neural Network Simulations summer 1993
- Logic and Reasoning with Neural Networks summer 1993
- Introduction to Neural Networks summer 1992, winter 1992/93

Technische Universität München

- Massively Parallel Models of Computation summer 1988
- Non-conventional Computation Paradigms winter 1987/88

Tutorials

- Integrating Symbol-Oriented and Subsymbolic Reasoning Methods into Hybrid Systems; International School on Neural Networks, Erice, Sicily, Italy, february 2002
- Neural Networks for Structured Knowledge; SOCO '99 (International ICSC Symposium on Soft Computing), Genova, Italy june 1999 revised
- Integrated Product and Process Development for Software Engineering; Systems and Software Engineering Institute, University of Texas, Austin / Raytheon may 1999
- Process and Software Engineering; IDPT '98 (Integrated Design and Process Technology) july 1998 revised
- Integrated Product and Process Development for Complex Systems; Conference on Complex Systems, Intelligent Systems, & Interfaces (Nîmes '98) may 1998
- Integrated Product and Process Development for Software Engineering; Systems and Software Engineering Institute, University of Texas, Austin march 1998
- Hybrid Systems: Integrating AI and Neural Network Techniques; IIA/SOCO 97 (Intelligent Industrial Automation/Soft Computing), EERIE Nîmes september 1997
- Neural Networks and Structured Knowledge (with Alessandro Sperduti); IJCAI '97 (International Joint Conference on Artificial Intelligence), Tokyo, Japan august 1997 new
- Integrated Product and Process Development for Software Engineering; Systems and Software Engineering Institute, University of Texas, Austin may 1997 new
- Hybrid Systems Architecture, ESPRIT Basic Research Project 9119 (MIX) Autumn School On Hybrid Symbolic Connectionist Systems 1996 september 1996 new
- Wissensverarbeitung mit Neuronalen Netzen (Knowledge Processing with Neural Networks); HeKoNN '95 (Herbstschule Konnektionismus und Neuronale Netze) october 95
- Wissensverarbeitung mit Neuronalen Netzen (Knowledge Processing with Neural Networks) HeKoNN '94 (Herbstschule Konnektionismus und Neuronale Netze) october 94 new
- Logic and Reasoning with Connectionist Models (with Steffen Hölldobler) IJCAI '93 (International Joint Conference on Artificial Intelligence) september 93 new
- High-performance Theorem Provers: Efficient Implementation and Parallelization (with Johannes Schumann, Reinhold Letz) Conference on Automated Deduction (CADE-10) summer 90 new
- Logic Programming (with Ulrich Furbach, Klaus Estenfeld) European Conference on Artificial Intelligence (ECAI '88) summer 1988 new

- Distributed Operating Systems (Working Group on Architecture and Applications in ESPRIT 415) spring 88 new

FURTHER PROFESSIONAL EXPERIENCE

Editorial Activities *Editorial board member* Applied Intelligence journal. Co-editor (with B. Apolloni) of the book “From Synapses to Rules: Discovering Symbolic Rules from Neural Processed Data.” published by Kluwer Academic Publishers in 2002. *Co-guest editor (with P. Frasconi, M. Gori, and A. Sperduti* special issue on “International ISCS/IFAC Symposium on Neural Computation”; Neurocomputing journal. *Guest editor* special issue on “Neural Networks and Structured Knowledge: Representation and Reasoning (vol. 1), Rule Extraction and Applications (vol. 2); Applied Intelligence journal. *Co-guest editor (with F. Fukushima and M. Heiss* special issue on “International ISCS/IFAC Symposium on Neural Computation”; Neurocomputing journal.

Conference Organization I have been involved in the organization of conferences and workshops in my areas of interest on a regular basis. Some of the conferences for which I have been on the program committees on a regular basis are the Internet2 Member Meeting, the German Conference on Artificial Intelligence, the International Conference on Artificial Neural Networks (ICANN), the IEEE ECBS (Engineering of Computer Based Systems) conferences, the Integrated Design and Process Technology conferences (IDPT), and the German Workshop on Enhanced Media (GWEM). In particular, I was Co-Editor of the IDPT 2003 (Integrated Design and Process Technology) conference proceedings, the co-organizer of a workshop on *Integration of Data Mining and Knowledge Management* during the International Conference on Data Mining (ICDM 2001) in San Jose, California, and I acted as chair of the Computational Intelligence Symposium at the Intelligent Systems and Applications (ISA 2000 conference) and was co-editor of the conference proceedings.

Membership in Professional Organizations

Association for Computing Machinery (ACM); IEEE Computer Society; IEEE Technical Committee on Engineering of Computer-Based Systems; SDPS (Society for Design and Process Science); GI (Gesellschaft für Informatik – German Computer Science Society); FIFF (Forum Informatiker für Frieden und Freiheit / Forum Computer Scientists for Peace and Freedom).

PUBLICATIONS

- [Taylor, D.J., Bojduj, B., and Kurfess, F. J. 2008] Taylor, D.J., Bojduj, B., and Kurfess, F. J. (2008). Towards Using Neural Networks to Perform Object-Oriented Function Approximation. World Congress on Computational Intelligence 2008, Hongkong, June 2008. (accepted for publication)
- [Bojduj, Taylor, Kurfess, 2007] Bojduj, B., Taylor, D., and Kurfess, F.J., (2007). Optimization of Dynamic Combinatorial Optimization Problems through Truth Maintenance. *International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2007), Kyoto, Japan, June 2007.*
- [Kurfess, Mirijamdotter, Somerville, Stringer, Tobin, 2007] Kurfess, F.J., Mirijamdotter, A., Somerville, M., Stringer, J. and Tobin, B. (2007). Campus Learning Spaces: Two Innovation Design Approaches. *Educause Western Regional Conference 2007, San Francisco, CA, May 2007.*
- [Bojduj, Kurfess, 2007] Bojduj, B., and Kurfess, F.J., (2007). Case-Based Reasoning for Control of Spatial Representations *AAAI Spring Symposium on Spatial Reasoning, Stanford, CA, March 2007.*
- [Wirick, Kurfess, Phan, 2006] Wirick, B., Kurfess, F.J., and Phan, N., (2006). Lojban and Ontologies: Fostering Understanding Across Disciplines. *Integrated Design and Process Technology (IDPT 2006), Society for Design and Process Science (SDPS), San Diego, CA, June 2006.*
- [Muckenhaupt, Hanisch, Kurfess, 2006c] Muckenhaupt, M., and Hanisch, F., Kurfess, F. J., and Strasser, W., (2006). Designing Interactive Hypermedia Collaboratively. *Integrated Design and Process Technology (IDPT 2006), Society for Design and Process Science (SDPS), San Diego, CA, June. 2006.*
- [Muckenhaupt, Hanisch, Kurfess, 2006b] Muckenhaupt, M., and Hanisch, F., Kurfess, F. J., and Strasser, W., (2006). The AHES Taxonomy: Extending Adaptive Hypermedia to Software Components. *Adaptive Hypermedia and Adaptive Web-Based Systems - AH 2006, Dublin*

- [Muckenhaupt, Hanisch, Kurfess, 2006a] Muckenhaupt, M., and Hanisch, F., Kurfess, F. J., and Strasser, W., (2006). AHES: An Adaptive Hypermedia Engine for Software Components. ED-MEDIA 2006, Orlando, Florida.
- [Khosmood, Kurfess, 2005] Khosmood, F., and Kurfess, F. J. (2005). Automatic Source Attribution: A Neural Networks Approach. International Joint Conference on Neural Networks (IJCNN 2005), Montreal, Canada, Jul./Aug. 2005.
- [Aase, Kurfess, 2005] Aase, M., and Kurfess, F. J. (2005). Utilizing Learning Styles for Interactive Tutorials. *British Journal for Educational Technology (BJET)*. Revised and extended version of a paper accepted for the IEEE International Conference on Advanced Learning Technologies (ICALT 04).
- [Cheng, Pan, Kurfess, 2004] Cheng, C.K., Pan, X., and Kurfess, F. J. (2004). Ontology-based Semantic Classification of Unstructured Documents. in Nürnberger, A. and Detyniecki, M., editors, *Adaptive Multimedia Retrieval*, pages 120-131 Springer Verlag, LNCS 3094, 2004. Revised version of a paper with the same title in the *Workshop on Adaptive Multimedia Retrieval (AMR 2003)*. Hamburg, Germany, Sep. 2003.
- [Kurfess et al., 2004] Kurfess, F.J., Cheng, C.K., Wang, Z., and Jololian, L. (2004). Content-based framework for component libraries. *Journal of the Society for Design and Process Science (SDPS)*. Jun. 2004.
- [Kurfess, Franz, 2004] Kurfess, F.J., (2004). Promoting Internet2 at Teaching Institutions *Syllabus Magazine*. Jan. 2004.
- [Jololian et al., 2003] Jololian, L., Kurfess, F. J., and Tanik, M. (2003). Data, Function, and Control as Elements of Component Integration. *Integrated Design and Process Technology (IDPT 2003)*. Society for Design and Process Science (SDPS), Austin, TX, Dec. 2003.
- [Kurfess et al., 2003] Kurfess, F. J., Cheng, C.K., Wang, Z., and Jololian, L. (2003). Content-based framework for component libraries. *Integrated Design and Process Technology (IDPT 2003)*. Society for Design and Process Science (SDPS), Austin, TX, Dec. 2003.
- [Ertas et al., 2003] Ertas, A., Tiziana, M., Padberg, J., Heckel, R., van den Heuvel, W., Reussner, R., Lin, J., Sünbül, A., Kurfess, F., Aiello, M., Pernomo, H., Kawabata, R., Kim, M., Anlauff, M. (2004), editors. *Proceedings of the Conference on Integrated Design and Process Technology 2003 (IDPT 03)*, volume 2. Society for Design and Process Science, 80 pages (summary), full papers on CD-ROM.
- [Cheng, Pan, Kurfess, 2003b] Cheng, C.K., Pan, X., and Kurfess, F. J. (2003). A Context-Based Knowledge Management Framework for Software Development. *ConQuest 2003*. Nrnberg , Germany, Sep. 2003.
- [Cheng, Pan, Kurfess, 2003a] Cheng, C.K., Pan, X., and Kurfess, F. J. (2003). Ontology-based Semantic Classification of Unstructured Documents. *Workshop on Adaptive Multimedia Retrieval (AMR 2003)*. Hamburg, Germany, Sep. 2003.
- [Zhao et al., 2002] Zhao, J., Radhakrishnan, T., and Kurfess, F. J., (2002). Knowledge Management Support for Web Based Learning. *Workshop on Transdisciplinary Education, Research and Training at the Sixth World Conference on Integrated Design and Process Technology (IDPT 2002)* Society for Design and Process Science (SDPS), Pasadena, CA; proceedings on CD-ROM.
- [Apolloni and Kurfess, 2002] Apolloni, B. and Kurfess, F. J., (2002), editors. *From Synapses to Rules: Discovering Symbolic Rules from Neural Processed Data*. International School on Neural Networks series, Kluwer Academic Publishers, 2002.
- [Kurfess, 2002] Kurfess, F. J. Hybrid Systems: Integrating AI and Neural Network Techniques. in Apolloni, B. and Kurfess, F. J., (2002), editors. *From Synapses to Rules: Discovering Symbolic Rules from Neural Processed Data*. International School on Neural Networks series, Kluwer Academic Publishers, pp. 275-292, 2002.
- [Frasconi et al., 2002] Frasconi, P., Gori, M., Kurfess, F.J. and Sperduti, A., (2002). Special Issue on "Integration of Connectionist and Rule-Based Systems," *Cognitive Systems Research Journal*. Vol. 3, no. 2.
- [Kurfess and Hilario, 2001] Kurfess, F. J., and Hilario, M., editors (2001). *Integration of Data Mining and Knowledge Management*, International Conference on Data Mining (ICDM 2001) Workshop Proceedings, San Jose, California.
- [Kurfess, 2001] Kurfess, F. J. Artificial Intelligence. *Encyclopedia of Physical Science and Technology*, 3rd edition, Robert A. Meyers, editor. Academic Press, pp. 609-629, 2001.

- [Kurfess et al., 2001] Kurfess, F. J., Jololian, L., and Zhao, J. (2001). Component-Based Knowledge Management for Environmental Systems. *Symposium on Collaborative Decision Making, InterSymp 2001*, Baden-Baden, Germany.
- [Tang et al., 2001] Tang, Y., Dogru, A., Kurfess, F. J. and Tanik, M. (2001). Cyclomatic Complexity with Cubic Flowgraphs. *Systems Integration Journal*. Vol. 10, no. 4, pp. 395-409.
- [Chang et al., 2001] Chang, G., Samtani, G., Healey, M.J., Kurfess, F. J. and Wang, J. (2001). Precise Environmental Searches: Integrating Hierarchical Information Search with EnviroDaemon. *Systems Integration Journal*. Vol. 10, no. 3, pp. 253-267.
- [Naghdy et al., 2000] Naghdy, F., Kurfess, F. J., Ogata, H., Szczerbicki, E., Bothe, H. and Tianfield, H. (2000), editors. *Proceedings of the International ICSC Congress on Intelligent Systems and Applications (ISA 2000)*. International Computer Science Conventions, 2 volumes.
- [Jololian, Kurfess and Healey 2000] Jololian, L., Kurfess, F. J. and Healey, M.J. (2000). A Component-Based Environmental Knowledge Network. *Fifth Biennial World Conference on Integrated Design and Process Technology*, North Dallas/Addison, Texas, 2000.
- [Jololian, Tanik and Kurfess, 2000] Jololian, L., Tanik, M. and Kurfess, F. J. (2000). Intelligent Integration of Enterprise Software. *Fifth Biennial World Conference on Integrated Design and Process Technology*, North Dallas/Addison, Texas, 2000.
- [Kennedy and Kurfess, 2000] Kennedy, R. and Kurfess, F. J. (2000). Network Monitoring with Intelligent Agents. *International IEEE Symposium and Workshop on Engineering of Computer Based Systems (ECBS 2000)*, Edinburgh, Scotland.
- [Kurfess, 2000] Kurfess, F. J. (1999). Special issue on “Neural Networks and Structured Knowledge: Rule Extraction and Applications (Part. 2)” (guest editor). *Applied Intelligence*. (Volume 12, Numbers 1/2, Spring 2000).
- [Kurfess, 1999] Kurfess, F. J. (1999). Special issue on “Neural Networks and Structured Knowledge: Representation and Reasoning (Part. 1)” (guest editor). *Applied Intelligence*. (Vol. 11, Number 1, Fall 1999).
- [Kurfess, 1999b] Fukushima, F., Heiss, M., and Kurfess, F. J. (1999), guest editors. Special issue on “International ISCS/IFAC Symposium on Neural Computation”. *Neurocomputing*. (to appear).
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- [Kurfess, 1999b] Kurfess, F. J. (1999b). Neural networks for information retrieval from structured knowledge. In *Third International ICSC Symposium on Soft Computing (SOCO '99)*, Genova, Italy. ICSC.
- [Dogru, Tanik, Kurfess, Healey and Jololian, 1999] Dogru, A., Tanik, M., Kurfess, F. J., Healey, M. and Jololian, L. (1999). Green Manufacturing of Ammunition through Knowledge Management with Distributed Access. In Hawaii International Conference on Systems Sciences (HICSS 32).
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- [Kurfess and Rana, 1998] Kurfess, F. J., and Rana, A. (1998). Knowledge Integration for Environmental Systems. In *Joint Conference on Information Sciences (JCIS'98)*.
- [Kurfess and Healey, 1998] Revankar, A., Kurfess, F. J., Anstine, J., Watts, D. and Healey, M. (1998). Environmental Lifecycle Costing Model. In *Joint Conference on Information Sciences (JCIS'98)*.
- [Kurfess, 1998a] Kurfess, F. J. (1998a). Intelligent systems for a sustainable environment. In *Complex Systems, Intelligent Systems, & Interfaces (Nimes-98)*, pages 8-10. Special issue, numbers 134-136 of the French journal “La Lettre de l'Intelligence Artificielle”
- [Mou, Tanik and Kurfess, 1998a] Mou, G. G., Tanik, M. M and Kurfess, F. J. (1998). From Project Management to Process Modeling. In *Conference on Integrated Design and Process Technology (IDPT '98)*, pages 248-256.

- [Kurfess, 1997b] Kurfess, F. J. (1997b). Neural networks and structured knowledge. In Herrmann, C., Reine, F. and Strohmaier, A., editors, *Knowledge Representation in Neural Networks*, pages 5-23. Logos. Logos, Berlin.
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- [Bieber et al., 1997] Bieber, M., Bartolacci, M., Fjermestad, J., Kurfess, F. J., Liu, Q., Nakayama, M., Rana, A., Rossak, W., Scherl, R., Tanik, M., Wang, J., Yeh, R., Ng, P., and Vitali, R. S. F. (1997). Electronic enterprise engineering – an outline for an architecture. In *International IEEE Symposium and Workshop on Engineering of Computer Based Systems (ECBS '97)*. pages 376-383.
- [Bieber et al., 1996c] Bieber, M., Kurfess, F. J., Liu, Q., Rossak, W., Tanik, M., Yeh, R., and Ng, P. (1996c). Issues and architectures for electronic enterprise engineering. In *Second World Conference on Integrated Design and Process Technology (IDPT '96)*, pages 57-62, Austin, Texas. Society for Design and Process Science.
- [Kurfess and Welch, 1996] Kurfess, F. and Welch, L. R. (1996). Categorization of programs using neural networks. In *International IEEE Symposium and Workshop on Engineering of Computer Based Systems (ECBS '96)*, pages 420-426.
- [Welch et al., 1996b] Welch, L. R., Yu, G., Ravindran, B., Kurfess, F., Henriques, J., and Wilson, M. (1996b). Reverse engineering of complex Navy systems. *International Journal of Software Engineering and Knowledge Engineering*, 6(4), pages 531-547.
- [Kurfess, 1996b] Kurfess, F. J. (1996b). Stichworte: Grobcodierung (coarse coding), Konnektionismus (connectionism), rekurrentes Netz (recurrent network), strukturierte neuronale Netze (structured neural networks), Alphabet (alphabet), Automat (automaton), Effektor (effector), Sensor (sensor), Iteration (iteration) Kontrollstruktur (control structure), Koroutinen (co-routines), Schleife (loop). In Strube, G., Becker, B., Freksa, C., Hahn, U., Opwis, K., and Palm, G., editors, *Wörterbuch der Kognitionswissenschaften*. Klett-Cotta. Contributions to a cognitive science dictionary.
- [Welch et al., 1996a] Welch, L. R., Kurfess, F. J., and Wilson, M. (1996a). A toolset for reverse engineering of computer-based control systems. In *8th Annual Software Technology Conference (STC '96)*.
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- [Paass and Kurfess, 1994] Kurfess, F. J. (1994). Kurfess, F. J. and Paass, G., editors, *Integration Neuronaler und Wissensbasierter Ansätze*, GMD-Studien, Gesellschaft für Mathematik und Datenverarbeitung (GMD), Schloß Birlinghoven, Sankt Augustin, Germany. KI '94 Workshop on the Integration of Neural and Knowledge-based Approaches.
- [Kurfess and Sperduti, 1994] Kurfess, F. J. and Sperduti, A., editors (1994). *Logic and Reasoning with Neural Networks*. Workshop Proceedings, International Conference on Logic Programming (ICLP-94), Santa Margherita Ligure, Italy.
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