Jak Kirman

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Education and Research

1994-1996 Post-doctorate researcher at Brown University.

1994 Ph.D., Computer Science, Brown University. Advisor: Thomas Dean. Title: *Predicting Real-Time Planner Performance by Domain Characterization.*

1990 M.S., Computer Science, Brown University.

1985 D.E.A. de Mathématiques et Informatique (mention assez bien), Faculté des Sciences, Luminy, Marseille, France (studies done at Brandeis University, MA., under exchange program).

1984 Maitrise de Structures Mathématiques de l'Informatique (mention bien), Faculté des Sciences, Luminy, Marseille, France.

1983 B.A. Mathematics, Oxford University (Balliol College), England.

Teaching Experience

1990-95 Training consultant for Semaphore Training, teaching Advanced C++, Object-Oriented Design and Object-Oriented Analysis courses at AT&T, Amdahl, Arthur Anderson Consulting, Bellcore, DEC, Honeywell, HP, IBM, IHS, Legent, Mentor Graphics, NASA, NCR, SW Bell, US West.

1995 Taught the object-oriented section of an introductory Computer Science course at Brown, using object-oriented pascal.

1994 Participated in the development of the Advanced C++ course used by Semaphore Training.

1991 Participated in the development of a course for Mentor Graphics Corporation, Introduction to the Mentor User Interface Management System.

1990 Part of a team of 3 training consultants, developing the Introduction to C++ course used by Semaphore Training.

1985-87 Computer Architecture, University of Aix-Marseille III, France
Pascal and software packages, ESCAE, Marseille, France
Introduction to Computer Science, ISGA, Marseille, France
Technical English, ISGA, Marseille, France

1983-84 English, Formation Continue, University of Aix-Marseille III, France

Publications

Challenges for Theory and Practice in Planning. Submitted to *Fifth Int. Conf. on AI Planning Systems.* With Thomas Dean.

Theory and Practice in Planning. Submitted to *AAAI-96.* With Thomas Dean, Shieu-Hong Lin and Kostadis Roussos.

Predicting Real-Time Planner Performance by Domain Characterization. Ph.D. thesis, Brown University, Oct 94

Planning Under Time Constraints in Stochastic Domains. In *Special Issue on Planning, AIJ 1995.* With Thomas Dean, Leslie Kaelbling and Ann Nicholson.

Using Goals to Find Plans with High Expected Utility. In *Current Trends in AI Planning, Ed. Sandewall and Backstrom, IOS Press, Amsterdam.* With Ann Nicholson, Moises Lejter, Thomas Dean and Eugene Santos, Jr.

Planning With Deadlines in Stochastic Domains. In *Proceedings of AAAI-93.* With Thomas Dean, Leslie Kaelbling and Ann Nicholson.

Deliberation Scheduling for Time-Critical Sequential Decision Making. In *Proceedings of Uncertainty in Artificial Intelligence, UAI-93.* With Thomas Dean, Leslie Kaelbling, Ann Nicholson.

Probabilistic Network Representations of Continuous-Time Stochastic Processes for Applications in Planning and Control. In *First International Conference on AI Planning Systems, AIPS-92.*

Representation Issues in Bayesian Decision Theory for Planning and Active Perception. In *Proceedings of the DARPA Image Understanding Workshop, DARPA-IU-92.* With Tom Dean.

A Decision-Theoretic Approach to Planning, Perception and Control. In *IEEE Expert, August 1992.* With Ken Basye, Tom Dean and Moi Lejter.

Sensor Abstractions for Control of Navigation. In *Proceedings of IEEE International Conference on Robotics and Automation, IEEE-RA-91.*

Sequential Decision Making for Active Perception. In *Proceedings of the DARPA Image Understanding Workshop, IU-90, Pittsburgh, Pennsylvania.*

Skills

Proficient in C++, Python, Perl (4 and 5), C, Pascal, Lisp, csh and UNIX utilities such as Lex, YACC, awk and sed. Also some knowledge of Ada, 6502 assembly language, PDP-11 assembly language, Prolog, BASIC and FORTRAN.

Proficient in Tk, X11 and Motif programming, use of the S-PLUS data analysis system.

Familiarity with operating systems UNIX, VMS and MS-DOS.

Bilingual English-French.