

May, 2008

## RESUME

**Carmel Domshlak**

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Date and place of birth: 3/4/1974, USSR

Marital status: Married + 1

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### ACADEMIC DEGREES

Ph.D. 2002, Computer Science Department, Ben Gurion University of the Negev.

M.Sc. 1998, Mathematics and Computer Science Department, Ben Gurion University of the Negev.

B.Sc. 1993, Mathematics and Computer Science Department, Ben Gurion University of the Negev.

### ACADEMIC APPOINTMENTS

2003—present Senior Lecturer, Faculty of Industrial Engineering and Management, Technion, Israel.

2002—2004 Postdoctoral Fellow, Intelligent Information Systems Institute, Department of Computer Science, Cornell University, USA.

1998—2002 Instructor, Department of Computer Science, Ben-Gurion University, Israel.

1996—1998 Teaching Assistant, Department of Computer Science, Ben-Gurion University, Israel.

### RESEARCH INTERESTS

- Artificial Intelligence (AI)
  - Computational aspects of AI problem solving
  - Knowledge representation and reasoning
- Applications of AI to information and decision-support systems
- Information integration, retrieval, and ranking

## TEACHING EXPERIENCE

### Graduate-level courses

- *Automated Planning*, Technion (\*)<sup>1</sup>
- *Advanced Topics in Information Systems*, Technion

### Undergraduate-level courses

- *Software Engineering*, Technion (\*)
- *Introduction to Artificial Intelligence*, Technion
- *Seminar in Information Systems and Knowledge Engineering*, Technion (\*)
- *Systems Programming*, Ben-Gurion University (\*)

## TECHNION ACTIVITIES

2006—present Member of the Computer Infrastructure committee at the Technion.

10/2007—present Assistant to the Dean, in charge of promoting Faculty curricula.

## PUBLIC PROFESSIONAL ACTIVITIES

2007— Management Committee member for the EU COST Action IC0602 (“Algorithmic Decision Theory”).

2006— Editorial Board, *Journal of Artificial Intelligence Research* .

2002— Reviewer on behalf of Editorial Board for *J. of Artificial Intelligence Research*, *Artificial Intelligence*, *Annals of Mathematics in Artificial Intelligence*, *Machine Learning*, *ACM Transactions on Computational Logic*, *IEEE Transactions on Systems, Man and Cybernetics, Part B*, *J. of Autonomous Agents and Multi-Agent Systems*, *Decision Analysis*, *J. of Constraints*, *J. of Heuristics*, *Annals of Operations Research*.

2002— Reviewer on behalf of *NSF*, *ISF*, *GIF*.

2002— Program Committee Member for major conferences: *AAAI*, *ECAI*, *UAI*, *ICAPS*, *KR*.

2002— Reviewer on behalf of Program Committee Members, *AAAI*, *IJCAI*, *ECAI*, *UAI*, *ICAPS*, *CP*, *KR*, *ICTAI*, *ICDM*, *LICS*.

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<sup>1</sup>Courses annotated with (\*) are either new or redesigned standard courses.

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

- American Association for Artificial Intelligence (AAAI)
- Israel Association for Artificial Intelligence (IAAI)

## HONORS

- 2004—2006 Alexander Goldberg Academic Lectureship in Industrial Engineering and Management, Technion.
- 2001 "Best Ph.D. Research Award for 2001" from the Dean for Natural Science, Ben-Gurion University.
- 2000 Applied Materials Award for "Excellence in Ph.D. Research".
- 1999-2002 Excellence in Hi-Tech Research Fellowship, VATAT.

## GRADUATE STUDENTS

### Completed

1. Naama Zwerdling (Aharony), M.Sc., *Effective ranking methods for desktop search*, (joint advising with Sara Cohen, Technion/IE), April, 2007.
2. Ruslana Makovetsky, M.Sc., *Adopting machine learning approaches to the novelty detection task*, July, 2007.
3. Vitaly Mirkis, M.Sc., *STRIPS planning with no negative effects*, November, 2007.

### In Progress

1. Michael Katz, Ph.D. (direct track), *Structural patterns of tractable optimal planning*, proposal defended in October 25, 2007.
2. Erez Karpas, Ph.D., *Anytime reasoning about action*, starting October, 2008.
3. Alexander Naidich, M.Sc., *Efficient use of prior information and collaboration in reasoning about user preferences*, expected to graduate in 2008.
4. Evgeny Televitckiy, M.Sc., *Opinion aggregation for double-cold start in recommender systems*, (joint advising with Yoram Moses, Technion/EE), expected to graduate in 2008.
5. Mattan Winaver, M.Sc., *Clarity-based query modification for information retrieval*, (joint advising with Oren Kurland, Technion/IE), expected to graduate in 2008.
6. Victor Dweck, M.Sc., *Factored planning*, expected to graduate in 2008.

## RESEARCH GRANTS

- 2008-2009 *Meeting artificial-intelligence and motion planning on UAVs*, Goldstein UAV and Satellite Center (TASP), Annual budget: \$50.000 (with Tal Shima, Technion).
- 2007-2011 *Embedding and homomorphism abstractions for automated heuristic-search planning*, Israel Science Foundation (ISF), Annual budget: 159.000 NIS.
- 2007-2011 *Factored planning*, Israel Science Foundation (ISF), Annual budget: 185.000 NIS (with Ronen I. Brafman, Ben-Gurion University)
- 2005-2007 *Efficient non-parametric revelation of ordinal preferences*, United States-Israel Binational Science Foundation (BSF), Total budget: \$50.000 (with Thorsten Joachims, Cornell).
- 2004 *Preference-based optimization of multimedia objects*, STRIMM Consortium, Israel Ministry of Industry, Total budget: 27.500 NIS.

## SIGNIFICANT PROFESSIONAL PROJECTS

- 2004 Researcher, *Real-World Reasoning* (DARPA Program), Cornell University. Project Managers: Prof. B. Selman and Prof. C. Gomes.
- 2002—2004 Researcher, *Autonomous Negotiation Teams* (DARPA Program), Cornell University. Project Managers: Prof. B. Selman and Prof. C. Gomes.
- 1999—2002 Research Associate, *Intelligent Multimedia on the Internet* (Infrastructure Program of Israel Ministry of Science), Ben-Gurion University. Project Manager: Dr. R. Brafman.
- 2000-2002 Research Associate, *Quality of Service Support for Streaming* (STRIMM Consortium of Israel Ministry of Industry and Trade), Ben-Gurion University. Project Manager: Dr. R. Brafman.
- 1997-1999 Research Associate, *Knowledge Discovery in Databases* (Infrastructure Program of Israel Ministry of Science), Ben-Gurion University. Project Manager: Dr. S. E. Shimony.

## PUBLICATIONS

### Theses

1. Ph.D. Dissertation, *Modeling and reasoning about preferences with CP-nets*, 2002. (Advisors: Dr. Ronen I. Brafman and Dr. Solomon E. Shimony)
2. M.Sc. Dissertation, *Efficient probabilistic reasoning for knowledge discovery in databases*, 1998. (Advisor: Dr. Solomon E. Shimony)

## Refereed papers in professional journals

1. C. Domshlak, *On recursively directed hypercubes*, The (Electronic) Journal of Combinatorics, **9**(1):R23, 2002.
2. C. Domshlak, R. Brafman, *Structure and complexity in planning with unary operators*, Journal of Artificial Intelligence Research, **18**:315-349, 2003.
3. R. Ben-Eliyahu-Zohary, C. Domshlak, E. Gudes, N. Liusternik, A. Meisels, T. Rosen, S. E. Shimony, *FlexiMine - A flexible platform for KDD research and application development*, Annals of Mathematics and Artificial Intelligence, **39**(1-2):175-204, 2003.
4. S. E. Shimony, C. Domshlak, *Complexity of probabilistic reasoning in directed-path singly connected Bayes networks*, Artificial Intelligence, **151**(1-2):213-225, 2003.
5. C. Boutilier, R. Brafman, C. Domshlak, H. Hoos, D. Poole, *Preference-based constraint optimization with CP-nets*, Computational Intelligence, Special Issue on Preferences, **20**(2):137-157, 2004.
6. C. Boutilier, R. Brafman, C. Domshlak, H. Hoos, D. Poole, *CP-nets: A tool for representing and reasoning with conditional ceteris paribus preference statements*, Journal of Artificial Intelligence Research, **21**:135-191, 2004.
7. C. Domshlak, S. E. Shimony, *On probabilistic reasoning in Bayes nets with mutual exclusion and conditional independence*, International Journal of Intelligent Systems, **19**(8):703-726, 2004.
8. R. Brafman, C. Domshlak, S. E. Shimony, *Qualitative decision making in adaptive presentation of structured information*, ACM Transactions on Information Systems, **22**(4):503-539, 2004.
9. R. Béjar, C. Domshlak, C. Fernández, C. Gomes, B. Krishnamachari, B. Selman, M. Valls, *Sensor networks and distributed CSP: Communication, computation and complexity*, Artificial Intelligence, Special Issue on Distributed Constraint Satisfaction, **161**(1-2):117-147, 2005.
10. R. Brafman, C. Domshlak, S. E. Shimony, *On graphical modeling of preference and importance*, Journal of Artificial Intelligence Research, **25**:389-424, 2006.
11. C. Domshlak, S. Prestwich, F. Rossi, K. B. Venable, T. Walsh, *Hard and soft constraints for reasoning about qualitative conditional preferences*, Heuristics, **12**(4-5):263-285, 2006.
12. C. Domshlak, A. Gal, H. Roitman, *Rank aggregation for schema matching*, IEEE Transactions on Knowledge and Data Engineering, **19**(4):538-553, 2007.
13. C. Domshlak, T. Joachims, *Efficient and non-parametric reasoning over user preferences*, 2007, User Modeling and User-Adapted Interaction (special issue on Statistical and Probabilistic Methods for User Modeling), **17**(1-2):41-69, 2007.

14. C. Domshlak, J. Hoffmann, *Probabilistic planning via heuristic forward search and weighted model counting*, Journal of Artificial Intelligence Research, **30**:565-620, 2007.
15. R. Brafman, C. Domshlak, *Graphically structured value-function compilation*, Artificial Intelligence, **172**:325-349, 2008.
16. (★)<sup>2</sup> S. Cohen, C. Domshlak, N. Zwerdling, *On ranking techniques for desktop search*, ACM Transactions on Information Systems, **26**(2):P11, 2008.
17. (★) M. Katz, C. Domshlak, *New islands of tractability of cost-optimal planning*, Journal of Artificial Intelligence Research, **32**:203-288, 2008.
18. (★) V. Mirkis, C. Domshlak, *Set-structured and cost-sharing heuristics for classical planning*, accepted to Annals of Mathematics and Artificial Intelligence.

### Submitted to journals

1. M. Binshtok, R. Brafman, C. Domshlak, S. E. Shimony, *Generic preferences over subsets of structured objects*, submitted to Journal of Artificial Intelligence Research.
2. C. Domshlak, J. Hoffmann, A. Sabharwal, *Friends or foes? On planning as satisfiability and abstract CNF encodings*, submitted to Journal of Artificial Intelligence Research.
3. R. Brafman, C. Domshlak, *Preference handling: An introductory tutorial*, to appear in *AI Magazine* (survey article; technical report TR-08-04, Computer Science Department, Ben-Gurion University).

### Book chapters

1. C. Domshlak, *A snapshot on reasoning with qualitative preference statements in AI*, in "Preferences and Similarities", CISM Courses and Lectures, vol. 504, SpringerWien-NewYork, edited by G. Della Riccia, D. Dubois, R. Kruse, and H-J. Lenz, pp. 265-282, 2008.

### Refereed Papers in Conference Proceedings

1. S. E. Shimony, C. Domshlak, and E. Santos, *Cost-sharing in Bayesian Knowledge Bases*, Dan Geiger and Prakash Shenoy (editors) Proceedings of the Thirteenth Conference on Uncertainty in Artificial Intelligence (UAI), pp. 421-428, Providence, RI. Morgan Kaufmann Publishers, San Francisco, 1997. [45% acceptance]
2. C. Domshlak, D. Gershkovich, E. Gudes, N. Lusternik, A. Meisles, T. Rosen, and S. E. Shimony, *FlexiMine - A flexible platform for KDD research and application construction*, R. Agrawal and P. Stolorz (editors), Proceedings of Fourth International Conference on Knowledge Discovery in Databases (KDD), pp. 184-188, New-York, NY. AAAI Press, Menlo Park, 1998. [27.5% acceptance]

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<sup>2</sup>The (★) mark indicates papers coauthored with formally advised students.

3. C. Domshlak, R. Brafman, S. E. Shimony, *Preference-based configuration of web page content*, Proceedings of Seventeenth International Joint Conference on Artificial Intelligence (IJCAI), B. Nebel (editor), Morgan Kaufmann Publishers, pp. 1451-1456, Seattle, US, 2001. [25% acceptance]
4. C. Domshlak, Y. Dinitz, *Multi-agent off-line coordination: Structure and complexity*, Proceedings of Sixth European Conference on Planning (ECP), A. Cesta and D. Borrajo (editors), Lecture Notes in Artificial Intelligence, Springer-Verlag Publishers, 2002. [30% acceptance]
5. C. Domshlak, R. Brafman, *CP-nets - reasoning and consistency testing*, Proceedings of the Eighth International Conference on Principles of Knowledge Representation and Reasoning (KR), D. Fensel, F. Giunchiglia, D. McGuinness, and M-A. Williams (editors), Morgan Kaufmann, pp. 121-132, April, 2002, Toulouse, France. [35% acceptance]
6. C. Domshlak, R. Brafman, *Structure and complexity in planning with unary operators*, Proceedings of the Sixth International Conference on Artificial Intelligence Planning and Scheduling (AIPS), pp. 34-43, M. Ghallab, J. Hertzberg, and P. Traverso (editors), AAAI Press, April, 2002, Toulouse, France. [35% acceptance]
7. R. Brafman, C. Domshlak, *Introducing variable importance tradeoffs into CP-nets*, Proceedings of the Eighteenth Conference on Uncertainty in Artificial Intelligence (UAI), pp. 69-76, August, 2002, Edmonton, Canada. [34% acceptance]
8. C. Domshlak, S. E. Shimony, *Efficient probabilistic reasoning in Bayes nets with mutual exclusion and context specific independence*, Proceedings of the Sixteenth International FLAIRS Conference, Special Track on Uncertain Reasoning, May, 2003, St. Augustine, Florida.
9. R. Béjar, C. Domshlak, C. Fernández, C. Gomes, B. Selman, M. Valls, *Grid-based sensor DCSP*, Proceedings of the Eighteenth International Joint Conference on Artificial Intelligence (IJCAI), Short paper, August, 2003, Acapulco, Mexico. [27.6% acceptance]
10. C. Domshlak, F. Rossi, C. B. Venable, T. Walsh, *Reasoning about soft constraints and conditional preferences*, Proceedings of the Eighteenth International Joint Conference on Artificial Intelligence (IJCAI), August, 2003, Acapulco, Mexico. [20.7% acceptance]
11. J. Lawton, C. Domshlak, *On the role of knowledge in multi-agent opportunism*, Proceedings of the Third International Joint Conference on Autonomous Agents and Multi Agent Systems (AAMAS), Short paper, July, 2004, New-York. [45% acceptance]
12. R. Brafman, C. Domshlak, T. Kogan, *Compact value-function representations for qualitative preferences*, Proceedings of the Twentieth Conference on Uncertainty in Artificial Intelligence (UAI), pp. 51-58, July, 2004, Banff, Canada. [32% acceptance]
13. C. Domshlak, J. Lawton, *Multi-agent opportunistic planning and plan execution*, Proceedings of the Sixteenth IEEE International Conference on Tools with Artificial Intelligence (ICTAI), November, 2004, Boca Raton, Florida. [26% acceptance]

14. O. Kurland, L. Lee, C. Domshlak, *Better than the real thing? Iterative pseudo-query processing using cluster-based language models*, Proceedings of the 28th International Conference on Research and Development in Information Retrieval (SIGIR), August, 2005, Salvador, Brazil. [19% acceptance]
15. C. Domshlak, T. Joachims, *Unstructuring User Preferences: Efficient Non-Parametric Utility Revelation*, Proceedings of the Proceedings of the 21st Conference on Uncertainty in Artificial Intelligence (UAI), 2005, Edinburgh, Scotland. [34% acceptance]
16. J. Hoffmann, A. Sabharwal, C. Domshlak, *Friends or foes? An AI planning perspective on abstraction and search*, The International Conference on Automated Planning and Scheduling (ICAPS), 2006, The English Lake District, U.K. (**Short-listed for Best Paper Award.**) [33% acceptance]
17. C. Domshlak, J. Hoffmann, *Fast probabilistic planning through weighted model counting*, The International Conference on Automated Planning and Scheduling (ICAPS), 2006, The English Lake District, U.K. [33% acceptance]
18. R. Brafman, C. Domshlak, S. E. Shimony, Y. Silver, *Preferences over sets*, The Twenty-First National Conference on Artificial Intelligence (AAAI), 2006, Boston, MS. [21% acceptance]
19. R. Brafman, C. Domshlak, *Factored planning: How, when, and when not*, The Twenty-First National Conference on Artificial Intelligence (AAAI), 2006, Boston, MS. [21% acceptance]
20. (★) S. Cohen, C. Domshlak, N. Zwerdling, *On ranking techniques for desktop search*, The Sixteenth International Conference on World Wide Web (WWW), Short paper, 2007, Banff, Alberta, Canada.
21. (★) M. Winaver, O. Kurland, C. Domshlak, *Automatic query expansion selection*, Proceedings of the 30th International Conference on Research and Development in Information Retrieval (SIGIR), Short paper, 2007, Amsterdam, Holland, [45% acceptance].
22. (★) V. Mirkis, C. Domshlak. *Cost-sharing approximations for  $h^+$* , The International Conference on Automated Planning and Scheduling (ICAPS), 2007, Providence, RI, [25% acceptance].
23. (★) M. Katz, C. Domshlak, *Structural patterns of tractable sequentially-optimal planning*, The International Conference on Automated Planning and Scheduling (ICAPS), 2007, Providence, RI, [25% acceptance].
24. O. Kurland, C. Domshlak, *A rank-aggregation approach to searching for optimal query-specific clusters*, Proceedings of the 31st International Conference on Research and Development in Information Retrieval (SIGIR), 2008, Singapore [17% acceptance].

25. R. Brafman, C. Domshlak, *From one to many: Planning for loosely coupled multi-agent systems*, The International Conference on Automated Planning and Scheduling (ICAPS), 2008, Sydney, Australia, [33% acceptance].
26. (★) M. Katz, C. Domshlak, *Structural patterns heuristics via fork decomposition*, The International Conference on Automated Planning and Scheduling (ICAPS), 2008, Sydney, Australia, [33% acceptance].
27. (★) M. Katz, C. Domshlak, *Optimal additive composition of admissible heuristics*, The International Conference on Automated Planning and Scheduling (ICAPS), 2008, Sydney, Australia, [33% acceptance].

### Working papers

1. (★) C. Domshlak, T. Joachims, A. Naidich, *Efficient non-parametric collaborative utility revelation*.
2. (★) C. Domshlak, O. Kurland, M. Winaver, *Automatic, learning-free selection of query expansions*.
3. R. Brafman, C. Domshlak, *Factored planning: Tree-width in complexity of classical planning*.

### Other publications

1. C. Domshlak, and S. E. Shimony, "Distributed Induction of Association Rules", 1998, Technical Report FC-98-05, Math. and CS Dept., Ben-Gurion University.
2. C. Domshlak, T. Rosen, E. Shiller and S. E. Shimony, "Knowledge Discovery with FlexiMine", *AI Meets the Real World Symposium*, 1998, Stamford, CT.
3. C. Domshlak, and R. Brafman, "Structure and Complexity in Planning with Unary Operators - Preliminary Results", *Proceedings of the ECAI-2000 Workshop on Planning, Scheduling, and Design*, pp. 11-15, 2000, Berlin, Germany.
4. C. Domshlak, S. Genaim and R. Brafman, "Preference-based Configuration of Web Page Content - Preliminary Report", *Proceedings of the Second Workshop on Configuration*, pp. 19-22, 2000, Berlin, Germany.
5. R. Brafman, C. Domshlak, "CP-networks for Preference-based Constraint Optimization", *Proceedings of the First Workshop on Modeling and Solving Problems with Soft Constraints*, pp. 31-42, December, 2001, Paphos, Cyprus.
6. E. Gudes, C. Domshlak, N. Orlov, "Remote Conferencing with Multimedia Objects", *Proceedings of the Second International Workshop on Multimedia Data Document Engineering (MDDE'02)* (LNCS 2490), pp. 526-542, March, 2002, Prague.

7. C. Domshlak, S. E. Shimony "Improving the Dynamic Behavior of CP-net based Multi-Media Systems by Predicting Likely Components", *Proceedings of the AAAI/KDD/UAI-2002 Joint Workshop on Real-Time Decision Support and Diagnosis Systems*, pp. 66-72, July, 2002, Edmonton, Canada.
8. R. Brafman, C. Domshlak, "TCP-nets for Preference-based Product Configuration", *Proceedings of the Forth International Workshop on Configuration*, pp. 67-74, July, 2002, Lyon, France.
9. J. Lawton, C. Domshlak, "Towards Multi-Agent Opportunism with Planning Agents", *AAMAS-03 Workshop on Autonomy, Delegation, and Control*, July, 2003, Melbourne, Australia.
10. C. Domshlak, J. Lawton, "On Planning for Multi-Agent Opportunistic Execution", *IJCAI-03 Workshop on Issues in Designing Physical Agents for Dynamic Real-Time Environments*, August, 2003, Acapulco, Mexico.
11. (★) E. Televitchkiy, C. Domshlak, "Rank Aggregation for Presentation-Centric Preference Estimation", *AAAI-07 Workshop on Recommender Systems*, July, 2007, Vancouver, Canada.
12. (★) M. Katz, C. Domshlak, "Structural Patterns Heuristics: Basic Idea and Concrete Instance", *ICAPS-07 Workshop on Heuristics for Domain-independent Planning: Progress, Ideas, Limitations, Challenges*, 2007, Providence, RI.

## CONFERENCES

### Plenary talks

1. 3rd Conference of Israel Association for Information Systems (ILAIS), Israel, June 2008.  
**Keynote speaker.**
2. IIX CESM International Invitational Workshop on Similarities and Preferences, Italy, 2006.  
**Plenary speaker** of *Reasoning about qualitative preference expressions: Good news, bad news, and news we would probably like to hear.*
3. ICAPS Workshop on Planning with Preferences, Lake District, UK, 2006.  
**Plenary speaker** of *Graphical Modeling of Qualitative Preferences.*
4. Dagstuhl Seminar on Preferences: Specification, Inference, Applications (04271), 2004.  
**Plenary speaker** of *Graphical Modeling of Qualitative Preferences.*
5. 8th International Symposium on Artificial Intelligence and Mathematics, Ft. Lauderdale, FL., 2003.  
**Plenary speaker** of *Quantitative Reasoning on Qualitative Preferences.*

### Invited tutorial talks

1. The Twenty-Second National Conference on Artificial Intelligence (AAAI-07), July, 2007.  
**Invited tutorial** on *Representing, Eliciting, and Reasoning with Preferences* (with Ronen Brafman).
2. Thirtieth German Conference on Artificial Intelligence (KI-07), September, 2007.  
**Invited tutorial** on *Modeling Preferences in Artificial Intelligence*.
3. Ninth International Conference on Principles and Practice of Constraint Programming (CP-03), September, 2003.  
**Invited tutorial** on *Preference Representation and Constrained Optimization with CP-Nets* (with Ronen Brafman),
4. Information Directorate, US Air Force Research Laboratory, Rome, NY, 2003.  
**Invited tutorial** on *The Success, Failure, and Promise of Decision Theory in AI*.

### Active Participation in International Conferences

1. ICAPS'07 - The Seventeenth International Conference on Automated Planning and Scheduling (ICAPS), Providence, RI, 2007.  
**Presentation** of *Cost-sharing approximations for  $h^+$* .
2. AAAI'06 - The Twenty-First National Conference on Artificial Intelligence, Boston, MS, 2006.  
**Presentation** of *Factored planning: How, when, and when not*.
3. ICAPS'06 - The International Conference on Automated Planning and Scheduling, The English Lake District, UK, 2006.  
**Presentation** of *Fast probabilistic planning through weighted model counting*.
4. UAI'05 - The Twenty-First Conference on Uncertainty in Artificial Intelligence, Edinburgh, Scotland, 2006.  
**Session chair**.  
**Presentation** of *Unstructuring User Preferences: Efficient Non-Parametric Utility Revelation*.
5. UAI'02 - The Eighteenth Conference on Uncertainty in Artificial Intelligence, Edmonton, Canada, 2002.  
**Presentation** of *Introducing Variable Importance Tradeoffs into CP-nets*.
6. AI&Math'03 - The Eighth International Symposium on Artificial Intelligence and Mathematics, Ft. Lauderdale, FL., 2003.  
**Session Chair**.
7. AAAI/KDD/UAI-2002 Joint Workshop on Real-Time Decision Support and Diagnosis Systems, Edmonton, Canada, 2002.

- Presentation** of *Improving the Dynamic Behavior of CP-net based MultiMedia Systems by Predicting Likely Components.*
8. Forth International Workshop on Configuration, Lyon, France, 2002.  
**Presentation** of *TCP-nets for Preference-based Product Configuration.*
  9. AIPS-2002 Workshop on Planning and Scheduling with Multiple Criteria, April, Toulouse, France, 2002.  
**Presentation** of *Introducing Variable Importance Tradeoffs into CP-nets.*
  10. AIPS'02 - The Sixth International Conference on Artificial Intelligence Planning and Scheduling, Toulouse, France, 2002.  
**Presentation** of *Structure and Complexity in Planning with Unary Operators.*
  11. KR'02 - The Eighth International Conference on Principles of Knowledge Representation and Reasoning, Toulouse, France, 2002.  
**Presentation** of *CP-nets - Reasoning and Consistency Testing.*
  12. Forth International Workshop on Configuration, July, Lyon, France, 2002.  
**Presentation** of *TCP-nets for Preference-based Product Configuration.*
  13. CP'01 Workshop on Modeling and Solving Problems with Soft Constraints, Paphos, Cyprus, 2001.  
**Presentation** of *CP-networks for Preference-based Constraint Optimization.*
  14. ECP'01 - The Sixth European Conference on Planning, Toledo, Spain, 2001.  
**Presentation** of *Multi-Agent Off-line Coordination: Structure and Complexity.*
  15. IJCAI'01 - The Seventeenth International Joint Conference on Artificial Intelligence, August, Seattle, 2001.  
**Presentation** of *Preference-based Configuration of Web Page Content.*
  16. ECAI'00 Workshop on Configuration, Berlin, Germany, 2000.  
**Presentation** of *Preference-based Configuration of Web Page Content - Preliminary Report.*
  17. ECAI'00 Workshop on Planning, Scheduling, and Design, Berlin, Germany, 2000.  
**Presentation** of *Structure and Complexity in Planning with Unary Operators - Preliminary Results.*
  18. KDD'98 - The Fifth International Conference on Knowledge Discovery in Databases, New-York, NY, 1998.  
**Presentation** of *FlexiMine - A Flexible Platform for KDD Research and Application Construction.*

## Participation in Organizing Conferences

- 2008 Program committee member, National Conference on AI of the American Association for AI (AAAI).
- 2008 Program committee member, European Conference on AI (ECAI).
- 2008 Program committee member, The International Conference on Automated Planning and Scheduling (ICAPS).
- 2008 Program committee member, The International Conference on Principles of Knowledge Representation and Reasoning (KR).
- 2008 Program committee member, 4th Multidisciplinary Workshop on Advances on Preference Handling (co-located with AAAI-08).
- 2007 Organizing committee member, ICAPS'07 Workshop on Heuristics for Domain-independent Planning: Progress, Ideas, Limitations, Challenges.
- 2007 Program committee member, National Conference on AI of the American Association for AI (AAAI).
- 2007 Program committee member, The International Conference on Automated Planning and Scheduling (ICAPS).
- 2007 Program committee member, Annual Conference on Uncertainty in AI (UAI).
- 2006 Program committee member, National Conference on AI of the American Association for AI (AAAI).
- 2006 Program committee member, European Conference on AI (ECAI).
- 2006 Program committee member, Annual Conference on Uncertainty in AI (UAI).
- 2006 Program committee member, International Workshop on Advances in Preference Handling.
- 2006 Program committee member, ICAPS'06 Workshop on Preferences and Soft Constraints in Planning.
- 2005 Program committee member, National Conference on AI of the American Association for AI (AAAI).
- 2005 Program committee member, Annual Conference on Uncertainty in AI (UAI).
- 2005 Program committee member, International Workshop on Advances in Preference Handling.
- 2005 Program committee member, International Workshop on Preferences and Soft Constraints.

2004 Program committee member, Annual Conference on Uncertainty in AI (UAI).

2003 co-Chair, AFRL/IISI Workshop on Mixed Initiative Decision Making, Cornell University, October, 2003.

2002 Program committee member, National Conference on AI of the American Association for AI (AAAI).