

# List of Publications of Wolfgang Slany

March 23, 2003

## Refereed journal articles

- [1] Wolfgang Slany. Fuzzy expert system for maintenance interval prediction. *Computers Chemical Engineering*, 18:S155–S159, 1994.
- [2] Jürgen Dorn, Mario Girsch, Günther Skele, and Wolfgang Slany. Comparison of iterative improvement techniques for schedule optimization. *European Journal of Operational Research*, 94(2):349–361, October 1996.
- [3] Wolfgang Slany. Scheduling as a fuzzy multiple criteria optimization problem. *Fuzzy Sets and Systems*, 78:197–222, March 1996.
- [4] Andreas Raggl and Wolfgang Slany. A reusable iterative optimization library to solve combinatorial problems with approximate reasoning. *International Journal of Approximate Reasoning*, 19(1-2):161–191, July/August 1998.
- [5] Ruth Fingerlos, Johannes Gärtner, Nysret Musliu, and Wolfgang Slany. Zyklische Schichtplanung. *KI Journal*, (2):31–34, May 2001.
- [6] Johannes Gärtner, Nysret Musliu, and Wolfgang Slany. Rota: a research project on algorithms for workforce scheduling and shift design optimization. *AI Communications: The European Journal on Artificial Intelligence*, 14(2):83–92, 2001.
- [7] Nysret Musliu, Johannes Gärtner, and Wolfgang Slany. Efficient generation of rotating workforce schedules. *Discrete Applied Mathematics*, 118(1-2):85–98, 2002.
- [8] Wolfgang Slany. Endgame problems of Sim-like graph Ramsey avoidance games are PSPACE-complete. *Theoretical Computer Science*, 289(1):829–843, October 2002.
- [9] Frank Harary, Wolfgang Slany, and Oleg Verbitsky. On the lengths of symmetry breaking-preserving games on graphs. *Theoretical Computer Science* (to appear).
- [10] Nysret Musliu, Andrea Schaerf, and Wolfgang Slany. Local search for shift design. *European Journal of Operational Research* (to appear).

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- [11] Jürgen Dorn and Wolfgang Slany. A flow shop with compatibility constraints in a steelmaking plant. In Mark Fox and Monte Zweben, editors, *Intelligent Scheduling*, chapter 22, pages 629–654. Morgan Kaufmann, 1994.
- [12] Erich Peter Klement and Wolfgang Slany. Fuzzy logic in artificial intelligence. In Allen Kent and James G. Williams, editors, *Encyclopedia of Computer Science and Technology*, volume 34. Marcel Dekker, Inc. New York, 1996.
- [13] Markus Bonner, Stefan Mayer, Andreas Raggl, and Wolfgang Slany. FLIP++: A fuzzy logic inference processor library. In Trevor P. Martin and Anca L. Ralescu, editors, *Fuzzy Logic in Artificial Intelligence: Towards Intelligent Systems*, volume 1188 of *Lecture Notes in Artificial Intelligence*, pages 44–56. Springer, 1997.
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- [15] Frank Harary, Wolfgang Slany, and Oleg Verbitsky. A symmetric strategy in graph avoidance games. In Richard J. Nowakowski, editor, *More Games of No Chance*, volume 42 of *Mathematical Sciences Research Institute Publications*, pages 369–381. Cambridge University Press, 2002.

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- [16] Jürgen Dorn, Wolfgang Slany, and Christian Stary. Uncertainty management by relaxation of conflicting constraints in production scheduling. In Marc Drummond, Mark Fox, Austin Tate, and Monte Zweben, editors, *Practical Approaches to Scheduling and Planning*, Working Notes from the 1992 AAAI Spring Symposium Series, republished as NASA Technical Report FIA-92-17, pages 62–66, Stanford, CA, May 1992. NASA Ames Research Center, Artificial Intelligence Branch.
- [17] Wolfgang Slany, Christian Stary, and Jürgen Dorn. Uncertainty management in production scheduling applied to high-grade steelmaking. In *6. Workshop Planen und Konfigurieren*, FORWISS-Report, pages 51–60, Erlangen München Passau, March 1992. Bayrisches Forschungszentrum für Wissensbasierte Systeme.
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- [23] Wolfgang Slany. Fuzzy expert system for maintenance interval prediction. In Franz Moser, Hans Schnitzer, and Hansjörg Bart, editors, *European Symposium on Computer Aided Process Engineering-3. ESCAPE-3, 25th European Symposium of the Working Party on Computer Aided Process Engineering, 494th Event of the European Federation of Chemical Engineering (EFChE)*, Supplement to Computers & Chemical Engineering, pages S155–S159, Graz, Austria, July 1993. Pergamon Press Ltd.
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- [30] Wolfgang Slany. Comparing partial constraint satisfaction models. In *Workshop Notes of the CP'95 Workshop on Over-Constrained Systems*, pages 151–159, Cassis, France, September 1995.
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- [46] Nysret Muslija, Johannes Gärtner, and Wolfgang Slany. Efficient generation of rotating workforce schedules. In Edmund Burke and Wilhelm Erben, editors, *Proceedings of the 3rd int. conf. on the practice and theory of automated timetabling (PATAT 2000)*, pages 314–332, August 2000.
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- [51] Wolfgang Slany. Scheduling with fuzzy decision making methods (invited paper). In Mario Fedrizzi, Erich P. Klement, Aldo Ventre, and Alessandro Zorat, editors, *Proceedings of CIFT'94: Current Issues in Fuzzy Technologies: Decision Models and Systems*, pages 167–171, Trento, Italy, June 1994.
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- [53] Wolfgang Slany. Theory and practice of shift scheduling (invited paper). In *Proceedings of the Workshop on Algorithm Engineering as a New Paradigm: A Challenge to Hard Computation Problems*, Research Institute for Mathematical Science, Kyoto University, Japan, October 2000.
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- [58] Anca Ralescu, Bernadette Bouchon-Meunier, Trevor Martin, James G. Shanahan, and Wolfgang Slany, editors. *Workshop Notes of the IJCAI'95 Workshop on Fuzzy Logic in Artificial Intelligence*, Montreal, Canada, August 1995.
- [59] Wolfgang Slany, editor. *Proceedings of the First International Workshop on Approximate Reasoning in Scheduling (ARS'97)*, Zurich, Switzerland, February 1997. ICSC, International Computer Science Conventions, Canada.
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## Academic writings

- [61] Wolfgang Slany. Optimierung relationaler Anfragen am Beispiel der ARTHUR Implementierung. Diplomarbeit (Master's thesis), Vienna University of Technology, 1989.
- [62] Wolfgang Slany. *Fuzzy Scheduling*. PhD thesis, Vienna University of Technology, 1994.
- [63] Wolfgang Slany. Contributions to schedule optimization methods. Habilitationsschrift, Technische Universität Wien, 2001.

## Other writings

- [64] Anton Ertl, Martin Laubach, Wolfgang Slany, and Stefan Thurow. Natürlichsprachige Ausgabe. Arbeitsgemeinschaft Vergleich von Programmiersprachen PSAG T12-14, TU Wien, 1986.
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