Yuanlin ZHANG

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Research Interests

Constraint Networks (Constraint Satisfaction Problems), Constraint Programming; Algorithm; Artificial Intelligence; Operations Research; Data Conversion

Education

Ph.D.   **National University of Singapore**, *Computer Science*, Sep 2003
M.S.   **Nanjing University**, China, *Mathematics*, 1996
B.E.   **East-China Institute of Technology**, *Computer Science and Engineering*, 1990

Journal Articles

1. Erratum: P. van Beek and R. Dechter's Theorem on Constraint Looseness and Local Consistency, Yuanlin Zhang and Roland Yap, to appear in <u>*Journal of the ACM*</u>, 50(3): 277-279.
2. Christian Bessiere, Jean-Charles Regin, Roland H.C. Yap and Yuanlin Zhang. An optimal coarse-grained arc consistency algorithm. Accepted by *Artificial Intelligence Journal*.

Refereed Conference Publications

1. Yuanlin Zhang and Eugene C. Freuder. Tractable Tree Convex Constraint Networks. In *Proceedings of Nineteenth National Conference on Artificial Intelligence* (AAAI-2004), 197-203. San Jose, 2004.

2. Yuanlin Zhang. On Tightness of Constraints. In *Proceedings of Tenth International Conference on Principles and Practice of Constraint Programming* (CP-2004), 777-781, Toronto, 2004.

3. Eugene C. Freuder and Yuanlin Zhang. The Optimistic Principle and Optimistic Pruning: A Preliminary Report. In *Proceedings of the first International Workshop on Constraint Propagation and Implementation* (in conjunction with CP-2004), 2004.

4. Chavalit Likitvivatanavong, Yuanlin Zhang, James Bowen, and Eugene C. Freuder : Arc Consistency in MAC: A New Perspective, In *Proceedings of the first International Workshop on Constraint Propagation and Implementation* (in conjunction with CP-2004), 2004.

5. Yuanlin Zhang and Eugene C. Freuder. Conditional interchangeability and substitutability. In Proceedings *of Fourth International Workshop on Symmetry and Constraint Satisfaction Problems* (SymCon04), Toronto, 2004.

6. Yuanlin Zhang. Consistency Techniques in Constraint Networks. *PhD Thesis, National University of Singapore*, Singapore, 2003.

7. Consistency and Set Intersection, Yuanlin Zhang and Roland Yap, *Proceedings of international Joint Conference on Artificial Intelligence (IJCAI-2003):* 263-268

8. Consistency and Set Intersection, Yuanlin Zhang and Roland Yap, *National Conference on Artificial Intelligence (AAAI-2002)*: 971-972

9. Incrementally Solving Functional Constraints, Yuanlin Zhang and Roland Yap, *National Conference on Artificial Intelligence (AAAI-2002)*: 973-974

10. Making AC-3 an Optimal Algorithm, Yuanlin Zhang and Roland Yap, *International Joint Conference on Artificial Intelligence (IJCAI-2001)*: 316-321

11. Arc Consistency on n-ary Monotonic and Linear Constraints, Yuanlin Zhang and Roland Yap, *International Conference on Principles and Practice of Constraint Programming* (CP-2000): 470-483

12. Functional Elimination and 0/1/All Constraints, Yuanlin Zhang, Roland Yap and J. Jaffar, *National Conference on Artificial Intelligence (AAAI-1999)*: 175-180

13. Bound Consistency on Linear Constraints in Finite Domain Constraint, Yuanlin Zhang and H. Wu, *European Conference on Artificial Intelligence (ECAI-1998)*: 265-266

Professional Activities

External reviewer for the following journal or conferences:
Artificial Intelligence, International Joint Conference on Artificial Intelligence, International Conference on Principles and Practice of Constraint Programming, International Conference on Computational Logic, Asian Computing Science Conference *etc*.

AAAI member.

Program committee of AAAI-2004

Organizing committee of CPAI-2004 and CPAI-2005