

Ruoyun Huang

CONTACT INFORMATION	747 6th Street South, Building A Kirkland, WA 98033, USA	Phone: (314)-341-6859 e-mail: ruoyun@google.com
RESEARCH INTERESTS	Automated Planning and Scheduling, Satisfiability, Heuristic Search, Temporal Reasoning, Machine Learning and Data Mining in large scale systems.	
EDUCATION	Washington University in Saint Louis , Missouri, USA <i>Ph.D. Computer Science</i>	September 2005 – August 2011
	Donghua University , Shanghai, China <i>B.S. Computer Science</i>	September 1999 – Jun 2003
HONORS AND AWARDS	Outstanding Paper Award , 24th National Conference on AI (AAAI), July 2010 (from 982 submissions) First Prize, Satisficing Track, 5th International Planning Competition, ICAPS, June 2006	
PROFESSIONAL EXPERIENCE	Google, Inc <i>Software Engineer</i>	October 2011 – present
	<ul style="list-style-type: none">• Develop large scale data mining systems• Devise statistical machine learning models for smart Ads targeting	
	Washington University in Saint Louis <i>Teaching Assistant</i>	September 2005 – August 2011
	<ul style="list-style-type: none">• Undergraduate course Algorithms and Data Structures (2011 Spring)• Graduate course Introduction to Artificial Intelligence (2006 Fall, 2008 Fall)• Undergraduate course Logical and Discrete Mathematics (2005 Fall)	
	Bearingpoint Consulting Shanghai, China <i>Software Engineer/Technical Consultant</i>	July 2003 – June 2005
	<ul style="list-style-type: none">• Participated in all life-cycles of J2EE Enterprise Information Management Systems• Business & ERP models for int'l trading, finance management and wholesale provider• A configurable workflow support solution for business processes• Engaged in the organization's CMM5 establishment, improvement and assessment activities	
PROFESSIONAL AND SOCIAL ACTIVITIES	Serve as Journal Reviewer: Journal of AI Research, Constraints, IEEE Intelligent Systems, ACM Transactions on Intelligent Systems and Technology, Artificial Intelligence Journal Serve as Conference Reviewer: AAAI, IJCAI, ICAPS, SoCS, ICTAI, ICDM, SIGKDD WUSTL CSE Dept. Graduate Student Assn.: Vice President, Activity Chair (2008, 2009) WUSTL Chinese Student and Scholar Assn.: Webmaster, Vice President, Secretary ('06, '07, '08) Student Volunteer: National Conference on AI (2008, 2010)	
CONFERENCE AND JOURNAL PUBLICATIONS	<ul style="list-style-type: none">▷ <i>R. Huang</i>, Y. Chen, and W. Zhang, "SAS+ Planning as Satisfiability", Journal of Artificial Intelligence Research, invited paper, to appear.▷ Q. Lu, Y. Xu, <i>R. Huang</i>, Y. Chen, and G. Chen, "Can Cloud Computing be Used for Planning? An Initial Study", Proc. IEEE CloudCom (CloudCom-11), 2011.▷ J. Chen, Y. Chen, E. Xu, <i>R. Huang</i> and Z. Chen, "Multiple-goal recognition based on planning", Proc. Int'l Conf. on Fuzzy Systems and Knowledge Discovery (FKSD'10), 2011▷ <i>R. Huang</i>, Y. Chen, and W. Zhang, "A Novel Transition Based Encoding Scheme for Planning as Satisfiability", Proc. AAAI Conference on AI (AAAI'10), 2010. Outstanding Paper Award▷ G. Zou, Y. Chen, Y. Yang, <i>R. Huang</i>, and Y. Xu, "AI Planning and Combinatorial Optimization for Web Service Composition in Cloud Computing", Proc. Int'l Conf. on Cloud Computing and Virtualization (CCV'10), 2010	

- ▷ Y. Chen, *R. Huang*, Z. Xing, and W. Zhang, “Long-Distance Mutual Exclusion for Planning”, **Artificial Intelligence Journal**, Volume 173, Issue 2, Pages 197-412, 2009.
 - ▷ *R. Huang*, Y. Chen, and W. Zhang, “An Optimal Temporally Expressive Planner: Initial Results and Application to P2P Network Optimization”, Proc. Int’l Conference on Automated Planning and Scheduling (**ICAPS’09**), 2009.
 - ▷ Y. Chen, *R. Huang*, and W. Zhang, “Fast Planning by Search in Domain Transition Graphs”, Proc. AAAI Conference on AI (**AAAI’08**), 2008.
 - ▷ C. Hsu, B. Wah, *R. Huang*, and Y. Chen, “Constraint Partitioning for Solving Planning Problems with Trajectory Constraints and Goal Preferences”, Proc. Int’l Joint Conf. on AI (**IJCAI’07**), 2007.
- WORKSHOP AND SHORT PAPERS
- ▷ E. Xu, Q. Lu, *R. Huang*, and Y. Chen, “The Roamer Planner: Random Walk Assisted Best-First Search”, IPC-11 Booklet, 2011.
 - ▷ Q. Lu, E. Xu, *R. Huang*, and Y. Chen, “The Roamer Planner: Random Walk Assisted Best-First Search”, IPC-11 Booklet, 2011.
 - ▷ Y. Xu, Y. Chen, Q. Lu and *R. Huang*, “Theory and Algorithms for Partial Order Based Reduction in Planning”, CoRR abs/1106.5427.
 - ▷ *R. Huang*, Y. Chen, and W. Zhang, “DTG-Plan: Fast Planning by Search in Domain Transition Graphs”, Proc. Sixth Int’l Planning Competition, ICAPS’08.
 - ▷ Y. Chen, Q. Lv, and *R. Huang*, “Plan-A: A Cost-Optimal Planner Based on SAT-Constrained Optimization”, Proc. Sixth Int’l Planning Competition, ICAPS’08.
 - ▷ C. W. Hsu, B. W. Wah, *R. Huang*, and Y. Chen, “New Features in SGPlan for Handling Soft Constraints and Goals Preferences”, Proc. Fifth International Planning Competition, ICAPS’06.
 - ▷ C. W. Hsu, B. W. Wah, *R. Huang*, and Y. Chen, “Handling Soft Constraints and Goal Preferences in SGPlan”, Proc. ICAPS Workshop on Preferences and Soft Constraints in Planning, 2006.
- TALKS
- University of Missouri - Columbia, USA, November 2010
 - 24rd AAAI Conference on Artificial Intelligence, Atlanta USA, July 2010
 - 23rd AAAI Conference on Artificial Intelligence, Chicago USA, July 2008
- PROGRAMMING
- C/C++, Java, SQL, HTML, XML/XLS, \LaTeX , Python, Javascript, AMPL, Scheme, J2EE Server Side Programming, PDDL
- SYSTEMS
- Linux, Oracle, Apache, TOMCAT, Websphere, WebLogic, SQL Server, SWT
- REFEREES
- References are available upon request.*