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<b>Research Interests</b>	NP-complete problems, Computational Complexity, Algorithm Design	
<b>Research Projects</b>	1. 2014.01-2016.12, National Natural Science Foundation of China (NO. 11301339) 2. 2014.05-2014.12, National Natural Science Foundation of China (NO. 11491240108)	
<b>Publications</b> 期刊论文	1. Chunyan Zhao, Haijun Zhou, Zhiming Zheng, and Ke Xu, A message-passing approach to random constraint satisfaction problems with growing domains, Journal of Statistical Mechanics: Theory and Experiment, 2011, P02019 2. Chunyan Zhao, Pan Zhang, Zhiming Zheng, and Ke Xu, Analytical and belief-propagation studies of random constraint satisfaction problems with growing domains, Physical Review E, 2012, 85, 016106 3. Chunyan Zhao, and Zhiming Zheng, Threshold behaviors of random constraint satisfaction problem with exact phase transitions, Information Processing Letters, 2011, 111: 985-988 4. Chunyan Zhao, and Zhiming Zheng, A belief-propagation algorithm based on variable entropy for constraint satisfaction problems, Science China Information Sciences, 2012, 42: 1170-1180 5. Zhiqiang Yuan, and Chunyan Zhao, Two improved simulated annealing algorithms for solving constrain satisfaction problems with large domains, Application Research of Computers, 2017, 34(12): 3611-3616 6. Borong Wu, Chunyan Zhao, and Zhiqiang Yuan, Combining belief propagation and simulated annealing to solve random constraint satisfaction problems, Application Research of Computers, 2019,	

	<p>36(5): 1297-1301</p> <p>7. Feilong Li, Chunyan Zhao, and Rumeng Fan, An algorithm based on tabu search to solve random satisfaction problems, Journal of Computer Applications (accepted), 2020</p> <p>8. Chunyan Zhao, Rumeng Fan, and Yanan Liu, Phase transitions in a random constraint satisfaction problem with various constraint tightness, Application Research of Computers (accepted), 2020, 5</p>
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