

DINGDING CHEN

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EDUCATION

Chongqing University

2017-Present

Ph.D. student in Computer Science

Supervisor - Prof. Zhongshi He and Lec. Ziyu Chen

Chongqing University

2015-2017

M.S. in Computer Science

Supervisor - Prof. Zhongshi He

Kunming University of Science and Technology

2011-2015

B.S. in Computer Science

RESEARCH INTEREST

Multi-agent systems, Distributed constraint optimization problems, Combinatorial optimization

PUBLICATIONS

* for corresponding author, [†] for co-first author

- [1]: **Dingding Chen**, Ziyu Chen*, Yanchen Deng, Zhongshi He, Lulu Wang. Inference-based Complete Algorithms for Asymmetric Distributed Constraint Problems. *Artificial Intelligence Review*, (**SCI**, **IF=9.588**).
- [2]: **Dingding Chen**, Ziyu Chen*, Dingding Chen, Ziyu Chen, Zhongshi He, Junsong Gao, Zhizhuo Su. Learning heuristics for weighted CSPs through deep reinforcement learning. *Applied Intelligence*, 2022 (**SCI**, **IF=5.019**).
- [3]: **Dingding Chen**[†], Yanchen Deng[†], Ziyu Chen*, Zhongshi He, Wenxing Zhang. A Hybrid Tree-based Algorithm to Solve Asymmetric Distributed Constraint Optimization Problems. *Journal of Autonomous Agents and Multi-Agent Systems*, 2020 (**SCI**, **CCF-B**).
- [4]: Jie Wang[†], **Dingding Chen**[†], Ziyu Chen*, Xiangshuang Liu, Junsong Gao. Completeness Matters: Towards Efficient Caching in Tree-Based Synchronous Backtracking Search for DCOPs. In *Proceedings 28th International Conference on Principles and Practice of Constraint Programming (CP'22)*. (acceptance rate: 51.3%, **CCF-B**)
- [5]: Xiangshuang Liu, Ziyu Chen, **Dingding Chen**, Junsong Gao. A Bound-Independent Pruning Technique to Speeding up Tree-Based Complete Search Algorithms for Distributed Constraint Optimization Problems. In *Proceedings 27th International Conference on Principles and Practice of Constraint Programming (CP'21)*. (acceptance rate: 44%, **CCF-B**)
- [6]: **Dingding Chen**, Yanchen Deng, Ziyu Chen*, Zhongshi He, Wenxing Zhang. HS-CAI: A Hybrid DCOP Algorithm via Combining Search with Context-based Inference. In *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI'20)*. (acceptance rate: 20.6%, **CCF-A**)
- [7]: Ziyu Chen, Wenxin Zhang, Yanchen Deng*, **Dingding Chen**, Qiang Li. RMB-DPOP: Refining MB-DPOP by Reducing Redundant Inferences In *Proceedings of the 17th International Conference on Autonomous agents and Multiagent Systems (AAMAS'20)*. (acceptance rate: 23.0%, **CCF-B**)
- [8]: Yanchen Deng, Ziyu Chen*, **Dingding Chen**, Xingqiong Jiang, Wenxing Zhang. AsymDPOP: Complete Inference for Asymmetric Distributed Constraint Optimization Problems. In *Proceedings of the 29th International Joint Conference on Artificial Intelligence (IJCAI'19)*. (acceptance rate: 17.9%, **CCF-A**)

- [9]: Yanchen Deng, Ziyu Chen*, **Dingding Chen**, Xingqiong Jiang, Zhongshi He. PT-ISABB: A Hybrid Tree-based Complete Algorithm to Solve Asymmetric Distributed Constraint Optimization Problems. In *Proceedings of the 16th International Conference on Autonomous agents and Multiagent Systems (AAMAS'19)*. (acceptance rate: 24.0%, **CCF-B**)
- [10]: Ziyu Chen, Xingqiong Jiang, Yanchen Deng*, **Dingding Chen**, Zhongshi He. A Generic Approach for Accelerating Belief Propagation based DCOP Algorithms via A Branch-and-Bound Technique. In *Proceedings of the 23rd AAAI Conference on Artificial Intelligence (AAAI'19)*. (acceptance rate: 16.2%, **CCF-A**)

HONOR AND AWARDS

- Grade A scholarship of Chongqing University (2017)
- The Best Creative Award of Chongqing Open Data Innovation Application Competition (CODA) (2017)
- Excellent graduate student of Chongqing University (2016)
- Second prize of HUAWEI Cup - National Graduate Mathematical Modeling Contest (2016)
- Excellent Graduate of Kunming University of Science and Technology (2015)
- Community Contribution Award of Kunming University of Science and Technology (2014)
- Second grade scholarship of Kunming University of Science and Technology (2012)

REFERENCES

- Prof. Zhongshi He <zshe@cqu.edu.cn>
 - College of Computer Science, Chongqing University
- Lec. Ziyu Chen <chenziyu@cqu.edu.cn>
 - College of Computer Science, Chongqing University