Hanzhi Wang

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SUMMARY

Hanzhi Wang is currently a **second-year Ph.D. student** at School of Information, Renmin University of China, advised by Professor Zhewei Wei. She received her B.E. degree in Computer Science and Technology from Renmin University of China in June 2019. Her research focuses on **graph analysis and learning algorithms**. She is particularly interested in efficient algorithms on *Personalized PageRank* and *Graph Neural Networks*.

EDUCATION

Renmin University of China	**Ph.D. Student**
School of Information, advised by **Prof. Zhewei Wei**	*Sep. 2019 - Present*
Renmin University of China	**Bachelor of Engineering**
School of Information, Computer Science and Technology	*Sep. 2015 - Jun. 2019*

EXPERIENCE

Artificial Intelligence and Digital Economy Laboratory (Pazhou Lab)	**Research Intern**
AI Basic Theories and Algorithms Group, Guangdong, China	*Apr. 2021 - Jul. 2021*

PUBLICATIONS

1. Approximate Graph Propagation
   Hanzhi Wang, Mingguo He, Zhewei Wei*, Sibo Wang, Ye Yuan, Xiaoyong Du and Ji-Rong Wen
   ACM SIGKDD International Conference on Knowledge Discovery and Data Mining **(KDD 2021)**

2. ExactSim: benchmarking single-source SimRank algorithms with high-precision ground truths
   Hanzhi Wang, Zhewei Wei*, Yu Liu, Ye Yuan, Xiaoyong Du and Ji-Rong Wen
   International Journal on Very Large Data Bases **(VLDBJ 2021)**

3. Personalized PageRank to a Target Node, Revisited
   Hanzhi Wang, Zhewei Wei*, Junhao Gan, Sibo Wang and Zengfeng Huang
   ACM SIGKDD International Conference on Knowledge Discovery and Data Mining **(KDD 2020)**

4. Exact Single-Source SimRank Computation on Large Graphs
   Hanzhi Wang, Zhewei Wei*, Ye Yuan, Xiaoyong Du and Ji-Rong Wen
   ACM SIGMOD International Conference on Management of Data **(SIGMOD 2020)**

MANUSCRIPTS

○ Edge-based Local Push for Personalized PageRank
  Hanzhi Wang, Zhewei Wei*, Junhao Gan, Xiaoyong Du and Ji-Rong Wen
  In Advances in Neural Information Processing Systems **(NeurIPS 2021, under review)**

HONORS & AWARDS

○ The Outstanding Innovative Talents Cultivation Funded Programs 2020 of Renmin Univertity of China **(1% in university)**

○ China National Petroleum Corporation (CNPC) Scholarship **(2% in university)**

PATENTS

1. A Method for Collaborative Filtering Recommendation based on Single-Source SimRank
   Zhewei Wei, Xiaodong He, **Hanzhi Wang**, Xiaokui Xiao, Sibo Wang, Yu Liu, Xiaoyong Du
   Chinese National Patent, ZL201910577524.X

2. A Friend Recommendation Method based on Personalized PageRank
   Zhewei Wei, **Hanzhi Wang**, Junhao Gan, Sibo Wang, Zengfeng Huang
   Chinese National Patent (under Application), 202010850777.X

3. A Friend Recommendation Method based on Exact Single-Source SimRank Values
   Zhewei Wei, **Hanzhi Wang**, Ye Yuan, Xiaoyong Du, Ji-Rong Wen
   Chinese National Patent (under Application), 202010536506.X

INVITED TALKS

○ A Near Optimal Algorithm for Single-Target Personalized PageRank
   The 9th National Social Media Processing Conference **(SMP 2020)**

TEACHING

○ **Teaching Assistant** for Data Structure and Algorithm, instructed by Prof. Zhewei Wei, ***Fall 2019 - Spring 2020***
○ **Teaching Assistant** for ACM-ICPC Algorithms Design, instructed by Prof. Zhewei Wei, ***Spring 2019***