

Dongming Han

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Education

Ph.D. Student in Computer Science and Technology

Sept. 2017 – Present

Zhejiang University, China

- Supervisor: Prof. Wei Chen
- Research Interest: Graph Visualization, Graph Embedding, Anomaly Detection

B.Sc. Degree in Software Engineering

Sept. 2013 – June 2017

Zhejiang University, China

- Supervisor: Prof. Wei Chen
- Thesis: Visual Analysis of Temporal Ranking Ensembles

Working Experience

Zhejiang Lab, China

Apr. 2019 – Present

- NetV.js: A Large-scale Network Visualization Library based on WebGL (netv.zjuvag.org)

Publications

- [1] **Dongming Han**, Jiacheng Pan, Xiaodong Zhao, Wei Chen. NetV.js: A web-based library for high-efficiency visualization of large-scale graphs and networks. *Visual Informatics*, 2020.
- [2] **Dongming Han**, Jiacheng Pan, Fangzhou Guo, Dawei Zhou, Nan Cao, Jingrui He, Wei Chen and Xiaonan Luo. iNet: Visual Analysis of Irregular Transition in Multivariate Dynamic Networks. *Frontiers of Computer Science*, 2020. (Accept)
- [3] **Dongming Han**, Wei Chen, Rusheng Pan, Yijing Liu, Jiehui Zhou, Ying Xu, Tianye Zhang, Changjie Fan, Jianrong Tao and Xiaolong Zhang. GraphFederator: Federated Visual Analysis for Multi-party Graphs. *arXiv preprint arXiv:2008.11989*, 2020.
- [4] Jiacheng Pan, **Dongming Han**, Fangzhou Guo, Dawei Zhou, Nan Cao, Jingrui He and Wei Chen. RCanalyzer: Visual Analytics of Rare Categories in Dynamic Networks. *Frontiers of Information Technology & Electronic Engineering*, 21(4):491-506, 2020.
- [5] Rusheng Pan, **Dongming Han**, Jiacheng Pan, Yating Wei, Honghui Mei, Shuyue Zhou and Wei Chen. Visualization for Federated Learning: Challenges and Framework. *Journal of Computer-Aided Design & Computer Graphics*, 32(04):513-519, 2020. (in Chinese)
- [6] **Dongming Han**, Jiacheng Pan, Fangzhou Guo, Xiaonan Luo, Yingcai Wu, Wenting Zheng and Wei Chen. RankBrushers: Interactive Analysis of Temporal Ranking Ensembles. *Journal of Visualization*, 22(6):1241-1255, 2019.
- [7] Jiacheng Pan, **Dongming Han**, Jacheng Pan, Fangzhou Guo, Wenting Zheng, Jinhui Yu and Wei Chen. Visual Exploration of Topological Structure for Bitcoin Trading Network. *Journal of Software*, 30(10):3017-3025, 2019. (in Chinese)
- [8] Wei Chen, Fangzhou Guo, **Dongming Han**, Jacheng Pan, Xiaotao Nie, Jiazhi Xia and Xiaolong Zhang. Structure-Based Suggestive Exploration: A New Approach for Effective Exploration of Large Networks, *IEEE Transactions on Visualization and Computer Graphics*, 25(1):555-565, 2018.
- [9] **Dongming Han**, Jiacheng Pan, Fangzhou Guo, Wenting Zheng and Wei Chen. Visual Analysis for Anomaly Detection in Time-Series: A Survey. *Journal of Computer Research and Development*, 55(9):1843-1852, 2018. (in Chinese)
- [10] Wei Chen, Fangzhou Guo and **Dongming Han**. A Quick Search Method for the Influence Factors of Ranking Trends and Ranking Stability. *China Patent*, 201710386196.6.
- [11] Wei Chen, **Dongming Han**, Fangzhou Guo, Jiacheng Pan and Xiaotao Nie. A Quick Search Method for Entity Correspondence between Similar Subgraphs. *China Patent*, 201810532369.5.

Major Awards

- Academic Scholarship (2017, 2018, 2019)
- Excellent Post-Graduates Awards (2018, 2019, 2020)
- Ph.D. Student Scholarship (2019)
- Merit Post-Graduates Awards (2018, 2020)

Skills and Languages

- Programming: Python, JavaScript, TypeScript, React, Vue, C++, Java, PHP
- Visualization: D3, WebGL, Gephi
- Tools: MongoDB, MySQL, Neo4j, Node
- Language: Chinese (Native), English (Working language)