

Yuxin Ma

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RESEARCH INTERESTS

- Information Visualization, Visual Analytics, Visual Data Mining.

EDUCATION

- Ph.D. Candidate in Computer Science, Zhejiang University, China *Sept. 2012 - present*
– Supervisor: Prof. Wei Chen
- Bachelor Degree in Software Engineering, Zhejiang University, China. *Sept. 2008 - June 2012*

RESEARCH EXPERIENCE

- Research Intern (supervised by Prof. Anthony K.H. Tung), SeSaMe (Sensor-enhanced Social Media) Research Center, National University of Singapore. *Jan. 2016 - Jan. 2017*

PUBLICATIONS

- Honghui Mei, **Yuxin Ma**, Yating Wei, Wei Chen. The Design Space of Construction Tools for Information Visualization: A Survey. Proceedings of China Visualization. 2017.
- Jiazhi Xia, Fenjin Ye, Wei Chen, Yusi Wang, Weifeng Chen, **Yuxin Ma**, Anthony K.H. Tung. LDSScanner: Exploratory Analysis of Low-Dimensional Structures in High-Dimensional Data. IEEE Conference on Visual Analytics Science and Technology. 2017.
- **Yuxin Ma**, Wei Chen, Xiaohong Ma, Jiayi Xu, Xinxin Huang, Ross Maciejewski and Anthony K.H. Tung. EasySVM: A Visual Analysis Approach for Open-Box Support Vector Machines. Computational Visual Media Conference. 2017.
- **Yuxin Ma**, Jiayi Xu, Wei Chen, Xiangyang Wu and Fei Wang. A Visual Analytical Approach for Transfer Learning in Classification. Information Science 390:54-69. 2017.
- Junhua Lu, Wei Chen, **Yuxin Ma**, Junming Ke, Zongzhuang Li, Fan Zhang, and Ross Maciejewski. Recent Progress and Trends in Predictive Visual Analytics. Frontiers of Computer Science 11(2):192-207. 2017.
- Tianye Zhang, Xumeng Wang, Zongzhuang Li, Fangzhou Guo, **Yuxin Ma**, Wei Chen. A Survey of Network Anomaly Visualization. Science China Information Sciences 60(12):121101. 2017.
- **Yuxin Ma**, Tao Lin, Zhendong Cao, Chen Li and Wei Chen. Mobility Viewer: An Eulerian Approach for Studying Urban Crowd Flow. IEEE Transactions on Intelligent Transportation Systems 17(9):2627-2636. 2016.
- Xumeng Wang, Tianye Zhang, **Yuxin Ma**, Jing Xia, Wei Chen: A Survey of Visual Analytic Pipelines. Journal of Computer Science and Technology 31(4):787-804. 2016.
- Ramon Bospinyowong, Wei Chen, H. V. Jagadish, **Yuxin Ma**. ExRank: An Exploratory Ranking Interface. Proceedings of the VLDB Endowment 9(13). 2016.
- **Yuxin Ma**, Zhendong Cao and Wei Chen. A Survey of Visualization-driven Interactive Data Mining Approaches. Journal of Computer-Aided Design and Computer Graphics. 2015. (in Chinese)
- **Yuxin Ma**, Jiayi Xu, Dichao Peng, Ting Zhang, Chengzhe Jin, Huamin Qu, Wei Chen and Qunsheng Peng. A Visual Analysis Approach for Community Detection of Multi-Context Mobile Social Networks. Journal of Computer Science and Technology 28(5):797-809. 2013.

BOOK CHAPTERS

- **Yuxin Ma**, Wei Chen. "Chapter 3: Data" in *Data Visualization* 1st Edition (in Chinese). 2013. ISBN:9787121211546. China: Publishing House of Electronics Industry.

INVITED TALKS

- “Interactive Visual Data Mining”. The 9th Visualization Summer School of Zhejiang University. Zhejiang University, China. *July 2017*
- “A Visual Analysis Approach for Apache Spark Running Performance”. SeSaMe Workshop. SeSaMe Research Center, National University of Singapore. *July 2016*
- “High-dimensional Data Visualization”. The 8th Visualization Summer School of Zhejiang University. Zhejiang University, China. *August 2016*
- “Mobility Viewer: Visualizing Urban Crowd Flows”. SeSaMe Workshop. SeSaMe Research Center, National University of Singapore. *Jan. 2016*

TEACHING EXPERIENCE

- Teaching Assistant, Data Visualization (Lecturer: Prof. Wei Chen), Zhejiang University. *Sept. 2013 - Jan. 2014*
- Teaching Assistant, Data Visualization (Lecturer: Prof. Wei Chen), Zhejiang University. *Sept. 2012 - Jan. 2013*

HONORS AND AWARDS

- The Third Prize of Zengyong Lu CAD&CG High Technology Award, Zhejiang University *2016*
- Honorable Graduate Student Award, Zhejiang University *2014, 2015, 2016*

LANGUAGES

- **Chinese (Mandarin)** - Native
- **English** - Professional working proficiency

SKILLS

- **Programming Languages:** Python, JavaScript.
- **Operation Systems:** Ubuntu Linux.
- **Visualization Tools:** D3.js, Baidu Echarts.
- **Distributed Computing Platform:** Apache Spark.
- **Machine Learning Frameworks:** Python Scikit-learn, Keras, Tensorflow.
- **Miscellaneous:** Vim, GNU Toolchain, Git, Subversion.