Yi Du **Computer Network Information Center Chinese Academy of Sciences**

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Personal Information

Date of Birth： March, 1988 Date of Graduate：July, 2013

Address： 4# Building, South 4th Street Zhong Guan Cun. Beijing, P.R.China. 100190

Backgrounds

2016.09~Now Department of Big Data Technology and Application Development, Computer Network Information Center Beijing, China

- Job Title: **Associate Professor**
- Research Interest: **Data Mining, Visual Analytics**

2015.09~2016.09 School of Electrical and Computer Engineering, Purdue University USA

- Job Title: **Visiting Scholar**
- Research Interest: **Spatio-temporal Visualization, HCI**

2013.09~2016.09 Scientific Data Center, Computer Network Information Center, CAS Beijing, China

- Job Title: **Assistant Professor**
- Research Interest: **Data Processing, Data Visualization, HCI**

2008.09~2013.09 Institute of Software Chinese Academy of Sciences Beijing, China

- Major: Computer Applied Technology **Doctoral Degree**
- Research Interest: **Human Computer Interaction(HCI), Information Visualization**

2004.08-2008.07 Shandong University Jinan

- Major: Software Engineering Bachelor's Degree

Publications & Papers

- [1] Yi Du, Danhuai Guo, Xin Chen, Lei Ren, Guozhong Dai, DVIZ: A Model-driven Visualization System, Journal of Software, vol. 27, no. 5, pp. 1199-1211, 2016
- [2] Wenjuan Cui, Pengfei Wang, Xin Chen, Yi Du, Danhuai Guo, Yuanchun Zhou, Jianhui Li, How to Use the Social Media Data in Assisting Restaurant Recommendation. In H. Gao, J. Kim & Y. Sakurai (Eds.), Database Systems for Advanced Applications: DASFAA 2016 International Workshops: BDMS, BDQM, MoI, and SeCoP, Dallas, TX, USA, April 16-19, 2016, Proceedings (pp. 134-141). Cham: Springer International Publishing.
- [3] Yi Du, Qianyu Liu, Yuanchun Zhou, Jianhui Li, DVIZ: A Model-driven Visualization Generation System (Poster), in IEEE Symposium on Visual Analytics Science and Technology (VAST) 2015, Chicago, USA, 2015.
- [4] Danhuai Guo, Yi Du,A Visualization Platform for Spario-Temporal Data: a Data Intensive Computation Framework, in the 23rd International conference on Geoinformatics 2015, Wuhan, China, 2015. (To appear)
- [5] Yi Du, Feng Tian,Guozhong Dai, A Development Approach Based on Extensible User Interface Description Language, Journal of Software, vol. 26, no. 7, pp. 1772-1784, 2015.
- [6] Yi Du, Danhuai Guo, Yuanchun Zhou,Jianhui Li, A Data Processing and Visualization Platform for Large-scale Spatio-temporal Data, Journal of Computer Research and Development, vol. 51, no. s2, pp. 10-17, 2015.
- [7] Lei Ren, Yi Du,Guozhong Dai, Human-Computer Interaction Based on Semantic Focus+Context For Big

Data Visualization in Small Interface, Chinese Journal of Computers, 2015.(to appear)

- [8] Lei Ren,Yi Du, A Sketch+Fisheye Interface for Visual Analytics of Large Time-Series (Poster), in IEEE Symposium on Visual Analytics Science and Technology (VAST) 2014, Paris, France, 2014, pp. 265-266.
- [9] Lei Ren, Yi Du, Shuai Ma,XiaoLong Zhang, Visual Analytics Towards Big Data, Journal of Software, vol. 25, no. 19, pp. 1909-1936, 2013.
- [10] Lei Ren, Jin Cui, Yi Du,Guozhong Dai, Multilevel Interaction Model For Hierarchical Tasks In Information Visualization, in The 6th International Symposium on Visual Information Communication and Interaction (VINCI 2013) Tianjin, China, 2013, pp. 11-16.
- [11] Yingying Jiang, Feng Tian, Guang Li, Xiaolong (Luke) Zhang, Yi Du, Guozhong Dai,Hongan Wang, SpeechTouch: Precise Cursor Positioning on Touch Screen Mobiles, in 15th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI 2013), Munich, 2013.
- [12] Yi Du, Feng Tian, Cuixia Ma,Guozhong Dai, A User Interface Generation Framework Based on Multi-scale Description Method, Chinese Journal of Computers, vol. 36, no. 11, pp. 2179-2190, 2013.
- [13] Yi Du,Lei Ren, DaisyVA:An Intelligent Interactive Visualization Platform for Visual Analysis of Multi-Facet Information, Journal of Computer-Aided Design & Computer Graphics, vol. 25, no. 8, pp. 1177-1182, 2013.
- [14] Yi Du, Changzhi Deng, Feng Tian,Guozhong Dai, Extensible user interface description language, Journal of Software, vol. 24, no. 5, pp. 1127-1142, 2013.
- [15] Yi Du, Fei Lv, Feng Tian, Wenjun Hou, Cuixia Ma,Guozhong Dai, Sketch-Based interface for creation and visual representation of hyper videos, Journal of Software, vol. 24, no. Suppl.(2), pp. 32-41, 2013.
- [16] Yi Du, Feng Tian, Guozhong Dai, Feng Wang,Hongan Wang, A User Model Based on Mobile Environment, Journal of Software, vol. 22, pp. 120-128, 2011.
- [17] Yi Du, Cuixia Ma, Dongxing Teng,Guozhong Dai, CONCEPT-SKETCH: A Tool for Cooperative Visual Analytics, International Journal of Advanced Intelligence (IJAI), vol. 3, no. 1, pp. 95-113, 2011.
- [18] Yi Du, Cuixia Ma, Dongxing Teng,Guozhong Dai, Cooperative Concept Map Based on Cognitive Model for Visual Analysis, in The 3rd Visual Information Communication - International Symposium (VINCI 2010), Beijing, China, 2010, pp. 76-83.

Research Projects

- **Study on the method of interactive spatio-temporal data visualization based on Overview+Detail**
  Knowledge Innovation Program of Chinese Academy of Sciences (leader, 2015-2016, 10,000RMB)
- **Study on the method of model driven mass space-time data visualization development**
  National Natural Science Foundation of China (leader,2015-2017,260,000RMB)
- Research and application of comprehensive evaluation over cities
  Science and Technology Service Network Initiative (STS) (project participant)
- Virtual management technology and system of domain specific cloud computing
  Informatization project of CAS (project participant)
- Research on services of large spatio-temporal data faced to emergency
  National Natural Science Foundation of China (project participant)
- Research on Metaphor-based Interactive Learning Environment for Children
  National Natural Science Foundation of China (project participant)
- By blending pen input document analysis and recognition theory and method of research
  National Natural Science Foundation of China (project participant)
- Based on the research on man-machine interaction device attributes fusion
  National Natural Science Foundation of China (project participant)
- Personal information management research for more equipment
  National Natural Science Foundation of China (project participant)
- For video semantic description and interaction of the sketch interface key technology research

National Natural Science Foundation of China (project participant)

- Reality - -based Interaction model and user interface evaluation method research

National Natural Science Foundation of China (project participant)

- Based on handwritten equipment on-line handwriting intelligent understanding and interactive technology research

National Natural Science Foundation of China (project participant)

Project Experiences

2015.09-2016.09 Correlation visual analytics system of large spatio-temporal data

Java+JavaScript

2014.08-2015.09 Data visualization platform (DVIZ) (http://www.dviz.cn/dviz)

Java+ECharts+D3.js

2014.06-2014.08 Radiation-hardened orbit design demonstration system

Java+WorldWind SDK

2014.03-2014.07 Visualization system of a food factory

ECharts+Java+MongoDB

2014.02-2014.03 H7N9 avian influenza data visualization system (http://www.dviz.cn/h7n9)

D3.js

2013.10-2014.01 The taxi GPS visualization system

Java+OpenLayers

2013.07-2013.10 Orbit Data Visualization System

Java+WorldWind SDK

2011.01-2012.12 Research on User Interface Description Language under mobile environment

C+Java

2010.06-2012.01 Pen Based Operating Platform (PBOP)

C

2010.07-2010.10 Direct Social Network Importer of Gephi

Java+Netbeans RCP

2009.06-2010.03 Information Visualization Toolkit: DaisyViz

Java+Eclipse RCP