Yi Wang

Curriculum Vitae

School of Software Technology

Dalian University of Technology, Dalian, P.R.China 116620 $\$^0 + 86-15541181926$ $\bigstar + 86-411-62274466$ \bowtie dlutwangyi@dlut.edu.cn



Education

2005.09- College of Computer Science and Technology, Jilin University, China, Ph.D.

2009.06

2002.09- College of Computer Science and Technology, Jilin University, China, Master.

2005.03

1998.09- College of Computer Science and Technology, Jilin University, China, Bachelor.

2002.06

Professional Experience

2009.10-Now Master Tutor

2009.09-Now Lecturer

2009.07-Now Digital Media Technology Department, Software School, Dalian University of Technology,

P.R.China

Teaching Courses

2010-Now C Programming Base and Application

2010-Now Virtual Reality and Application

2009-Now Computer Vision2009-2015 Image Processing

Current Research Interests

Machine Learning (Zero-shot Learning, Incremental Learning and Manifold Learning) with its applications in human-computer Interaction.

Virtual Reality (Collision Detection and Seamless Composition)

Image Processing (Haze Filtering and Removal)

Publications (in the past five years)

- [1] Yi Wang, Panpan Shui, Xin Fan, Tianzhu Wang, "Incremental null Foley-Sammon Transform [J]", Electronics Letters, 2016 (On line) (SCI IF: 1.068).
- [2] Yi Wang, Tianzhu Wang, Xin fan, "Fast Incremental Null Space based Linear Discriminant Analysis based on QR decomposition [J]", Pattern Recognition Letters, 2016 (under review).

- [3] Xin Fan, Yi Wang, Renjie Gao, and Zhongxuan Luo, "Haze filtering with natural transmission [J]", *The Visual Computer*, January 2016, 32(1):137-147 (SCI IF: 1.073).
- [4] Chi Lin, Zihao Song, Houbin Song, Yi Wang, Guowei wu, "Differential Privacy Preserving in Big Data Analytics for Connected Health" Journal of Medical Systems, 2016, 40(4):1-9.
- [5] Yi Wang, Juncheng Liu, Xin Fan, Xiangjian He, Qi Jia, and Renjie Gao, "Online Gesture-based Interaction with Visual Oriental Characters based on Manifold Learning [J]", Signal Processing, 110: 123-131, 2015. (SCI IF: 2.238)
- [6] Yi Wang, Xinli Jiang, Rongyu Cao and Xiyang Wang, "Robust Indoor Human Activity Recognition Using Wireless Signals [J]", Sensors, 2015, 15(7), 17195-17208. (SCI IF:2.245)
- [7] Renjie Gao, Yi Wang, Min Liu and Xin Fan, "A fast algorithm for Dark Channel Prior [J]", Electronics Letters, 2015, 50(24):1826-1828.(SCI IF: 1.068).
- [8] Sheng Wang, Qiang Wu, Xiangjian He, Jie Yang, Yi Wang, "Local N-ary Pattern and Its Extension for Texture Classification [J]", Circuits and Systems for Video Technology, IEEE Transactions on, Volume: PP, Issue: 99, 2015, 2. (SCI IF: 2.259).
- [9] Qi Jia, Xinkai Gao, He Guo, Zhongxuan Luo and Yi Wang, "Multi-Layer Sparse Representation for Weighted LBP-Patches Based Facial Expression Recognition [J]", Sensors 2015, 15(3), 6719-6739. (SCI IF: 2.245)
- [10] Yi Wang, Zhongxuan Luo, Juncheng Liu, Xin Fan, Haojie Li, and Yunzhen Wu, "Real-time Estimation of Hand Gestures based on Manifold Learning from Monocular Videos [J]", Multimedia Tools and Applications, 71(2): 555-574, 2014. (SCI IF: 1.014)
- [11] Muhammad Abul Hasan, Min Xu, Xiangjian He, Yi Wang, "A camera motion histogram descriptor for video shot classification [J]", Multimedia Tools and Applications, August 2014, pp1-26. (SCI IF: 1.014)
- [12] Li H, Yi L, Liu B, Yi Wang, "Localizing relevant frames in web videos using topic model and relevance filtering [J]". *Machine Vision and Applications*, 2013: 1-10. (SCI IF: 1.444)
- [13] Haojie Li, JinhuiTang, Yi Wang, Bin Liu, "Looking into the world on Google Maps with view direction estimated photos [J]", Neurocomputing, Volume 95, October, pp.72-77. 2012. (SCI IF: 2.005)
- [14] Li Wenhui, Wang Ying, Yi Wang, "Eye location via a novel integral projection function and radial symmetry transform [J]", International Journal of Digital Content Technology and its Applications, 5(8), pp.70-80, 2011.
- [15] Yi Wang, Wenhui Li, Yi Li, Zihou Ge, "Dynamic clothing collision resolution using PSO [J]", International Journal of Computer Applications in Technology (IJCAT),38(1):2-9, 2010.
- [16] Wenhui Li, Yi Wang, Yi Li, Jiang Qi, "Proximity Queries using Separating Bounding Volumes [J]", International Journal of Computer Applications in Technology(IJCAT),38(1),40-48, 2010.

Conference Papers

[1] Xin Fan, Renjie Gao, and Yi Wang, "Example-based Haze Removal with two-layer Gaussian Process Regressions", International Conference on Pacific Graphics, 2014. Oral presentation;

- [2] Chai Z, Feng Y, Fan X, Wang Y et al. "Efficient mesh-based face beautifier on mobile devices [C]", Proceedings of the Fifth International Conference on Internet Multimedia Computing and Service. ACM, 2013: 169-173.
- [3] Yi Wang, Haojie Li, Juncheng Liu, Xin Fan, Yunzhen Wu, "Real-Time Estimation of Hands Gestures from Monocular Video [C]", Proceedings of the Fourth International Conference on Digital Home (ICDH2012), Guangzhou, China, 2012, pp.320-325, Oral presentation (El-Compendex, ISTP)
- [4] Yi Wang, Fan Xin, Li Haojie, JiaQi. "A hybrid visual attention method based on Itti model [C]", Proceedings of Workshop on Digital Media and Digital Content Management, DMDCM 2011,5,15-17, Hangzhou, Zhejiang China, 2011, Oral presentation;

Patents

- [1] Yi Wang, Xin Fan, Haojie Li, Zhongxuan Luo. "An interactive input and recognition method for Chinese characters based on hand gestures" has already obtained the authorization of the national invention patent grant of China P.R. under ZL 2013 1 0012582.0
- [2] Xin Fan, Yi Wang, "A method to generate color fog effect based on human interaction". has already obtained the authorization of the national invention patent grant of China P.R. under ZL 2013 1 0013850.8
- [3] Qi Jia, He Guo, Fengqi Li, **Yi Wang**, Yu Liu. **"A matching method based on measurement information"**, has already obtained the authorization of the national invention patent grant of China P.R. under ZL 2013 1 0011263.8
- [4] Xin Fan, Renjie Gao, Yi Wang, Liu Min. "A fast filtering method based on image local minimum or maximum". The patent application number: 201310429544.5.
- [5] Xin Fan, Renjie Gao, Yi Wang. "A fog effect simulation method based on depth information". The patent application number: 201310429999.4

Projects

Hosted Projects

Project: "Inference of new behaviors of human body based on the hidden attribute learning method and semantic motion model" supported by The National Natural Science Foundation of China (Grant No. 61402072), Jan. 2015-Dec.2017.

Project: "Research on the key problems of real-time natural interaction in Augmented Reality" supported by the Specialized Research Fund for the Doctoral Program of Higher Education of China (Grant No.20120041120050), Jan.2013-Dec.2015.

Project: "Research on real-time hand natural interaction technology in Augmented Reality" supported by Liaoning Province Education Administration (Doctor Startup Fund). Jan. 2012-Dec. 2013.

Project: "Research on collision detection in Virtual Reality" supported by the Fundamental Research Funds for the Central Universities of China, Jan. 2009- Dec. 2011.

Involved Projects

Project: "Interactive understanding between people and complex environment based on social media perception" supported by the Joint Research Fund for Overseas Natural Science of China. Jan. 2015-Dec. 2016

Project: "Research on complex shape description and abstract characteristics based on internal constraints of 3D/2D models" supported by The National Natural Science Foundation of China. Jan. 2015- Dec.2017

Project: "3D digital content intelligent processing based on conformal geometry and geometric invariants" supported by the Joint Research Fund for Overseas Natural Science of China. Jan. 2014- Dec.2015

Honors

- 2015 The outstanding graduate graduation thesis guidance teacher of Dalian University of Technology in 2015
- 2015 The outstanding undergraduate graduation thesis guidance teacher of Dalian University of Technology in 2015
- 2015 Teaching Quality Excellence Awards of Dalian University of Technology
- 2013 Teaching Quality Excellence Awards of Dalian University of Technology
- 2013 The outstanding undergraduate graduation thesis guidance teacher of Dalian University of Technology in 2013
- 2012 Teaching Quality Excellence Awards of Dalian University of Technology

Professional Activities

- 2015 Program Committee member, The 21th International Packet Video Workshop in conjunction with PCS 2015, May, 2015, Cairns, Australia
- 2015-present CCF Dalian Branch Committee Member
- 2014-present Reviewer for Multimedia Tools and Applications
 - 2013 Session co-chair, "Human-Computer Interaction", the 4th International Conference on Digital Home, Nov. 2013, Guangzhou, China.
- 2013-present Reviewer for International Conference on Digital Home(ICDH)
- 2013-present Reviewer for Pacific-Rim Conference on Multimedia (PCM)
- 2012-present CCF member
- 2012-present ACM member
- 2009-present IEEE member