

## Zhangyang (Atlas) Wang

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RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• <i>Machine Learning &amp; Data Analytics</i>: deep learning, sparse and low-rank modeling, pattern classification, dimensionality reduction, clustering, quantization.</li><li>• <i>Computer Vision &amp; Image Processing</i>: visual recognition, object detection, image and video restoration &amp; enhancement, image compression, image hashing.</li><li>• <i>Cognitive Science &amp; Biomedical Informatics</i>: brain-inspired vision model; computer vision and machine learning applications in personalized healthcare.</li></ul>
EDUCATION	<b>University of Illinois at Urbana-Champaign (UIUC)</b> Ph.D., Electrical and Computer Engineering (ECE), 2016 <ul style="list-style-type: none"><li>• Thesis Topic: <i>Task-Specific and Interpretable Feature Learning</i></li><li>• Advisor: Professor Thomas S. Huang</li></ul> <b>University of Science and Technology of China (USTC)</b> B.E., Electronic Engineering and Information Science (EEIS), 2012
PROFESSIONAL EXPERIENCE	<b>Assistant Professor</b> Aug 2017 to present Department of Computer Science and Engineering, Texas A&M University (TAMU), College Station, TX <b>Research Scientist</b> Feb 2017 to Jul 2017 Department of Industrial and Systems Engineering, University of Washington (UW), Seattle, WA <b>Research Fellow</b> Aug 2016 to Dec 2016 Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign, Urbana, IL <b>Visiting Researcher</b> Jul 2016 to Aug 2016 Department of Electrical and Computer Engineering, University of Minnesota (UMN), Minneapolis, MN <b>Research Assistant</b> Aug 2012 to Jul 2016 Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign, Urbana, IL Supervisor: Prof. Thomas S. Huang <b>Research Intern</b> May 2015 to Aug 2015 Cloud Computing and Storing (CCS) group, Microsoft Research, Redmond, WA Supervisors: Dr. Jin Li, Dr. Lei Zhang, Dr. Yuxiao Hu <b>Research Intern</b> May 2014 to Aug 2014 Imagination Lab, Adobe Research, San Jose, CA Supervisors: Dr. Hailin Jin, Dr. Jianchao Yang, et. al. <b>Research Intern</b> May 2013 to Aug 2013 US Army Research Laboratory, Adelphi, MD Supervisor: Dr. Nasser Nasrabadi <b>Research Mentor</b> Aug 2012 to May 2013 P.U.R.E research program, University of Illinois at Urbana-Champaign, Urbana, IL <b>Research Assistant</b> Aug 2010 to Jul 2012

Multimedia Computing and Communication Lab,  
 University of Science and Technology of China, Hefei, China  
 Supervisors: Prof. Houqiang Li, Prof. Qing Ling, Prof. Chang Wen Chen, et. al.

SELECTED  
 HONORS

Research Awards

- Lenovo AI Innovation Challenge Winner Oct 2017
- Amazon Catalyst Innovation Award Finalist, UW Feb 2017
- Dissertation Completion Fellowship, UIUC Graduate College<sup>1</sup> May 2016
- Thomas and Margaret Huang Award for Graduate Research<sup>2</sup>, UIUC Apr 2016
- AAAI 2016 Best Presentation Award Finalist Jan 2016
- Baidu Research Fellowship<sup>3</sup> Nov 2015
- Cognitive Science/Artificial Intelligence Award, UIUC May 2015
- Fall 2012 P.U.R.E. Symposium Audience Favorite Award, UIUC Dec 2012
- Outstanding Undergraduate Research Program Scholarship, USTC Oct 2011
- Honorable Winner of Mathematical Contest in Modeling (MCM) Apr 2011

Merit-based Scholarships

- Chinese Government Award for Outstanding Graduates Abroad Mar 2016
- Outstanding Graduate Scholarship, Anhui Province, P.R.China Apr 2012
- Outstanding Student Scholarship, USTC 2008, 2009, 2010, 2011

Travel Awards

- Invited Presenter, CCC Computing Research Symposium Oct 2017
- ICCV 2017 Young Researcher Travel Award Aug 2017
- CVPR 2016 Doctoral Consortium Apr 2016
- AAAI Scholarship Dec 2015
- ACM MM 2015 Travel Award Aug 2015
- CVPR 2015 Google Travel Award Jun 2015

Media Coverage

- “Atlas Wang recognized by Chinese government, Baidu, and Illinois”, *UIUC ECE Department Headline News*, highlighting my research accomplishments, July 2016.
- “Photoshop gets Shazam for fonts artificial intelligence tool”, *BBC News*, May 2016.
- “Adobe Photoshop unveils artificial intelligence tool to identify fonts from 20,000 typefaces”, *International Business Times*, May 2016.
- “How Adobe Sparks Innovation by Paying People to Fail”, *Fortune*, April 2016.
- “Wang develops font recognition system for Adobe”, *UIUC ECE Department Headline News*, highlighting my fruitful collaboration with Adobe, December 2015.
- More media coverage sources available upon requests: YouTube, Twitter, Nvidia Blog, Adobe Blog, UIUC Alumni Magazine, CNET.com, Business Spectator, etc.

Software Products

- DeepFont, an *Adobe Photoshop*<sup>®</sup> built-in feature, as one of its leading contributors. Please refer to the [official Photoshop manual](#).
- *Microsoft Prajna*<sup>®</sup> Distributed Machine Learning ToolBox, as one of its co-contributors.

JOURNAL  
 PUBLICATIONS

1. X. Wang, B. Fan, S. Chang, **Z. Wang**, X. Liu, D. Tao, and T. Huang, “Greedy Batch-based Minimum-cost Flows for Tracking Multiple Objects”, *IEEE Transactions on Image Processing (TIP)*, vol. 26, no. 10, pp. 4765-4776, Oct. 2017.

<sup>1</sup>As the only recipient from the ECE department. In 2016, 29 Ph.D. students from 27 departments were selected for the prestigious fellowship, by UIUC graduate college.

<sup>2</sup>A university-level distinction that annually recognizes research in Human-Computer Interaction.

<sup>3</sup>A highly competitive fellowship program that provides two years of financial support for Ph.D. students in computer science. Awarded among a total of 10 recipients worldwide.

2. **Z. Wang**, Y. Yang, Z. Wang, S. Chang, J. Yang and T. Huang, “Learning Super-Resolution Jointly from External and Internal Examples”, *IEEE Transactions on Image Processing (TIP)*, vol. 24, no. 11, pp. 4359-4371, Nov. 2015.
3. **Z. Wang**, N. Nasrabadi, and T. Huang, “Semi-supervised Hyperspectral Classification using Task-driven Dictionary Learning with Regularization”, *IEEE Transactions on Geosciences and Remote Sensing (TGRS)*, vol. 56, pp. 1161-1173, Mar. 2015.
4. **Z. Wang**, H. Li, Q. Ling, and W. Li, “Robust Temporal-Spatial Decomposition and Its Applications in Video Processing”, *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, vol. 23, no. 3, Mar. 2013.
5. H. Li, Z. Lu, **Z. Wang**, and W. Li, “Detection of Blotch and Scratch in Video Based on Video Decomposition”, *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, vol. 23, no. 11, Nov. 2013.
6. Z. Yu, H. Li, **Z. Wang**, Z. Hu, and C. Chen, “Multi-level Video Frame Interpolation: Exploiting the Interactions”, *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, vol. 23, no. 7, Jul. 2013.

BOOKS &  
CHAPTERS

1. Z. Wang, J. Yang, H. Zhang, **Z. Wang**, Y. Yang, D. Liu and T. Huang, “Sparse Coding and Its Applications in Computer Vision”, *World Scientific Books. ISBN: 978-981-4725-04-0*.<sup>4</sup>
2. **Z. Wang**, Y. Fu, and T. Huang, “Deep Learning through Sparse and Low-Rank Modeling”, *Elsevier*, preprint.
3. **Z. Wang**, et.al., Chapter “Deep Learning for Font Recognition and Retrieval”, in the book “Applied Cloud Deep Semantic Recognition: Advanced Anomaly Detection”, *CRC Press-Taylor & Francis*, preprint.

SELECTED  
CONFERENCE  
PUBLICATIONS

1. B. Li\*, X. Peng, **Z. Wang**, J. Xu, and D. Feng, “AOD-Net: All-in-One Dehazing Network”, *In Proceedings of IEEE International Conference on Computer Vision (ICCV)*, 2017<sup>5</sup>.
2. D. Liu, Z. Wang, Y. Fan, X. Liu, **Z. Wang**, S. Chang, and T. Huang, “Robust Video Super-Resolution with Learned Temporal Dynamics”, *In Proceedings of IEEE International Conference on Computer Vision (ICCV)*, 2017.
3. B. Cheng\*, **Z. Wang**, Z. Zhang, Z. Li, D. Liu, J. Yang, S. Huang, and T. Huang, “Robust Emotion Recognition from Low Quality and Low Bit Rate Video: A Deep Learning Approach”, *In Proceedings of the 7-th Conference on Affective Computing and Intelligent Interaction (ACII)*, 2017.
4. **Z. Wang**, J. Liu, S. Huang, X. Wang and S. Chang, “Transformed Anti-Sparse Learning for Unsupervised Hashing”, *In Proceedings of British Machine Vision Conference (BMVC)*, 2017.
5. **Z. Wang**, S. Huang, J. Zhou and T. Huang, “Doubly Sparsifying Network”, *In Proceedings of International Joint Conferences on Artificial Intelligence (IJCAI)*, 2017.
6. **Z. Wang**, S. Chang, Y. Yang, D. Liu and T. Huang, “Studying Very Low Resolution Recognition Using Deep Networks”, *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.

<sup>4</sup>Z. Wang is the sole author of: Chapter 8 “Hyper-Spectral Image Modeling”, as well as a major co-author of Chapter 3 “Image Super Resolution” and Chapter 6 “Clustering”.

<sup>5</sup>\* denotes that the first author is a student or mentee (co-)advised by Z. Wang.

7. **Z. Wang**, D. Liu, S. Chang, Q. Ling, Y. Yang and T. Huang, “ $D^3$ : Deep Dual-Domain Based Fast Restoration of JPEG-Compressed Images”, *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.
8. **Z. Wang**, S. Chang, Y. Yang, Q. Ling, and T. Huang, “Learning A Deep  $\ell_\infty$  Encoder for Hashing”, *In Proceedings of International Joint Conferences on Artificial Intelligence (IJCAI)*, 2016.
9. **Z. Wang**, S. Chang, J. Zhou, M. Wang and T. Huang, “Learning A Task-Specific Deep Architecture for Clustering”, *In Proceedings of SIAM Conference on Data Mining (SDM)*, 2016.
10. **Z. Wang**, Q. Ling, and T. Huang, “Learning Deep  $\ell_0$  Encoders”, *In Proceedings of the 30-th AAAI Conference on Artificial Intelligence (AAAI)*, 2016.
11. **Z. Wang**, J. Yang, H. Jin, E. Shechtman, A. Agarwala, J. Brandt, and T. Huang, “DeepFont: Recognize Your Font From An Image”, *In Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2015. [Full Paper]
12. **Z. Wang**, Y. Yang, S. Chang, J. Li, S. Fong, and T. Huang, “A Joint Optimization Framework of Sparse Coding and Discriminative Clustering”, *In Proceedings of International Joint Conferences on Artificial Intelligence (IJCAI)*, 2015.
13. Y. Yang, **Z. Wang**, J. Yang, J. Han, and T. Huang, “Regularized  $\ell_1$ -Graph for Data Clustering”, *In Proceedings of British Machine Vision Conference (BMVC)*, 2014.

PREPRINTS

1. D. Liu, Z. Wang, Y. Fan, X. Liu, **Z. Wang**, S. Chang, X. Wang, and T. Huang, “Learning Temporal Dynamics for Video Super-Resolution: A Deep Learning Approach”, *submitted to IEEE Transactions on Image Processing (TIP)*, 2017.
2. B. Li\*, X. Peng, **Z. Wang**, J. Xu, and D. Feng, “End to End United Video Dehazing and Detection”, *arXiv:1709.03919*, 2017.
3. B. Li\*, X. Peng, **Z. Wang**, J. Xu, and D. Feng, “An All-in-One Network for Dehazing and Beyond”, *arXiv:1707.06543*, 2017.

OTHER PUBLICATIONS

1. R. Timofte, ... , **Z. Wang**, ... , et. al. “NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results”, *In Proceedings of IEEE CVPR New Trends in Image Restoration and Enhancement workshop and challenge on image super-resolution (CVPR NITRE)*, 2017. [Challenge Report]
2. Y. Fan, H. Shi, J. Yu, D. Liu, W. Han, H. Yu, **Z. Wang**, X. Wang, and T. Huang, “Balanced Two-Stage Residual Networks for Image Super-Resolution”, *In Proceedings of IEEE CVPR New Trends in Image Restoration and Enhancement workshop and challenge on image super-resolution (CVPR NITRE)*, 2017.
3. H. Yu, D. Liu, H. Shi, H. Yu, **Z. Wang**, X. Wang, B. Cross, M. Bramlet, and T. Huang, “Computed Tomography Super-Resolution Using Convolutional Neural Networks”, *In Proceedings of IEEE International Conference on Image Processing (ICIP)*, 2017.
4. S. Huang, J. Zhou, **Z. Wang**, Q. Ling and Y. Shen, “Biomedical Informatics with Optimization and Machine Learning”, *EURASIP Journal on Bioinformatics and Systems Biology (JBSB)*, 2017. [Editorial Paper]

5. **Z. Wang**, D. Liu, S. Chang, F. Dolcos, D. Beck, and T. Huang, “Image Aesthetics Assessment using Deep Chatterjee’s Machine”, *In Proceedings of International Joint Conference on Neural Networks (IJCNN)*, 2017.
6. J. Yu, Y. Jiang, **Z. Wang**, Z. Cao and T. Huang, “UnitBox: An Advanced Object Detection Network”, *In Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2016.
7. Y. Yang, **Z. Wang**, Z. Wang, S. Chang, D. Liu, H. Shi, and T. Huang, “Epitomic Image Super-Resolution”, *In Proceedings of the 30-th AAAI Conference on Artificial Intelligence (AAAI)*, 2016. [Best Presentation Award Finalist]
8. **Z. Wang**, J. Yang, H. Jin, et. al., “DeepFont: A System for Font Recognition and Similarity”, *In ACM International Conference on Multimedia (ACM MM)*, 2015. [Tech Demo]
9. **Z. Wang**, Y. Yang, J. Yang and T. Huang, “Designing A Composite Dictionary Adaptively From Joint Examples”, *In Proceedings of IEEE Conference on Visual Communications and Image Processing (VCIP)*, 2015.
10. **Z. Wang**, Y. Yang, Z. Wang, S. Chang, W. Han, J. Yang, and T. Huang, “Self-Tuned Deep Super Resolution”, *In Proceedings of IEEE CVPR workshop on Deep Learning in Computer Vision (CVPR DeepVision)*, 2015.
11. **Z. Wang**, J. Yang, H. Jin, E. Shechtman, A. Agarwala, J. Brandt, and T. Huang, “Real-World Font Recognition using Deep Network and Domain Adaptation”, *International Conference on Learning Representations (ICLR)*, workshop, 2015.
12. **Z. Wang**, X. Liu, S. Chang, J. Zhou, G. Qi, and T. Huang, “Decentralized Recommender Systems”, *In Proceedings of SDM workshop on Machine Learning for Recommender Systems (SDM MLRec)*, 2015.
13. **Z. Wang**, Z. Wang, S. Chang, J. Yang and T. Huang, “A Joint Perspective Towards Image Super-Resolution: Unifying External and Self Examples”, *In Proceedings of IEEE Winter conference on Applications of Computer Vision (WACV)*, 2014.
14. Y. Yang, F. Liang, S. Yan. **Z. Wang**, and T. Huang, “Nonparametric Pairwise Similarity for Clustering”, *In Proceedings of Advances in Neural Information Processing Systems (NIPS)*, 2014.
15. Y. Yang, X. Chu, **Z. Wang**, and T. Huang, “On A Theory of Non-parametric Pairwise Similarity for Clustering: Connecting Clustering to Classification”, *NIPS workshop on Modern Nonparametric Methods in Machine Learning*, 2014.
16. Z. Wang, **Z. Wang**, P. Huang, M. Moll, D. Grady, N. Nasrabadi, T. Huang, L. Kayraki, and M. Johnson, “Active Planning, Sensing and Recognition Using a Resource-Constrained Discriminant POMDP”, *In Proceedings of IEEE CVPR workshop on Multi-Sensor Fusion (CVPR MSF)*, 2014.
17. Y. Yang, **Z. Wang**, J. Yang, and T. Huang, “Data Clustering by Laplacian Regularized  $\ell_1$ -Graph”, *In Proceedings of the 28-th AAAI Conference on Artificial Intelligence (AAAI)*, 2014.
18. Z. Yu, **Z. Wang**, H. Li, Q. Ling and W. Li, “Video Error Concealment via Total Variation Regularized Matrix Completion”, *In Proceedings of IEEE International Conference on Image Processing (ICIP)*, pp.1633-1636, 2012.
19. Z. Yu, **Z. Wang**, Z. Hu, Q. Ling and H. Li, “Video Frame Interpolation Using 3-D Total Variation Regularized Completion”, *In Proceedings of IEEE International Conference on Image Processing (ICIP)*, pp.857-860, 2012.

20. **Z. Wang**, H. Li, Q. Ling and W. Li, “Mixed Gaussian-Impulse Video Noise Removal via Temporal-Spatial Decomposition”, *In Proceedings of IEEE International Symposium on Circuits and Systems (ISCAS)*, pp.1851-1854, 2012.

SELECTED  
PATENTS

1. “Font Recognition and Font Similarity Learning Using Deep Neural Network”, *US Patent Number: 9501724* (Granted, 11/2016).
2. “A Method for Converting Interleaved Format Video into Progressive Format Video”, *Chinese Patent Number: CN102665060 B* (Granted, 07/2013).
3. “A Denoising Method and Device of Video Sequences”, *Chinese Patent Number: CN102685370 B* (Granted, 04/2013)

SELECTED  
PRESENTATIONS

Invited Talks at University Labs

- CSE Department Seminar, TAMU Sep 2017
- ECE Department Seminar, TAMU Sep 2017, Oct 2017
- ECE Department, UMN Jul 2016
- BIMCR, Peking University Jun 2016
- EEIS & Automation Departments, USTC Jun 2016, Nov 2015
- EECS Department, Northwestern University May 2016
- ISE Department, University of Washington Apr 2016
- CS Department, University of Texas at San Antonio Dec 2015
- ECE Department, UIUC May 2015, Dec 2014, May 2013
- Math Department, UCLA Feb 2014
- CS Department, UIUC Apr 2013

Invited Talks at Companies and Research Institutions

- Banner Alzheimer’s Institute, Phoenix, AZ Jul 2017
- Hulu, Beijing, China May 2016
- Microsoft Research Asia, Beijing, China Nov 2015
- Baidu Institute of Deep Learning, Beijing, China Nov 2015
- VALSE webinar Jun 2015
- Adobe Research, San Jose, CA Aug 2014, Jan 2013
- US Army Research Office, Adelphi, MD Aug 2013, Jan 2013

Oral Presentations at Conferences and Workshops

- IEEE CVPR, Honolulu, HI Jul 2017
- IJCAI, New York, NY Jul 2016
- SPARE workshop (Invited Talk), USTC, Hefei Jun 2016
- Chinese R Conference (Invited Talk), Beijing, China May 2016
- SDM, Miami, FL May 2016
- AAAI, Phoenix, AZ Feb 2016
- ACM MM, Brisbane, Australia Oct 2015
- IEEE CVPR DeepVision, Boston, MA Jun 2015
- IEEE WACV, Steamboat, CO. Mar 2014

STUDENTS &  
MENTEES

Ph.D. students

- *Zhenyu Wu*, CSE@TAMU Aug 2017 - present
  - *Jianghao Shen*, CSE@TAMU Aug 2017 - present
  - *Xiaohan Chen*, CSE@TAMU Aug 2017 - present
  - *Sicheng Wang*, CSE@TAMU Aug 2017 - present
  - *Ye Yuan*, CSE@TAMU Aug 2017 - present
- [Co-advising with Prof. Sing-Hoi Sze]

- M.S. students
- *Nitin Bansal*, CSE@TAMU Aug 2017 - present
  - *Junru Wu*, CSE@TAMU Aug 2017 - present
  - *Pengcheng Pi*, ECE@TAMU Aug 2017 - present  
[Co-advising with Prof. Zixiang Xiong]

- External Ph.D. (or equivalent level) mentees
- *Bowen Cheng*, ECE@UIUC Sep 2017 - present  
[Co-advising with Prof. Thomas Huang]
  - *Boyi Li*, HUST & MSRA Sep 2016 - present  
[Co-advising with Dr. Xiulian Peng and Dr. Ji-Zheng Xu]
  - *Xiaofeng Zhang*, Automation@USTC Sep 2016 - present  
[Co-advising with Prof. Qing Ling]
  - *Ke Sun*, EEIS@USTC May 2017 - present  
[Co-advising with Prof. Dong Liu]

- Undergraduates
- *Bowen Cheng*, ECE@UIUC May 2016 - May 2017
  - *Rusheng Liu*, Math@USTC Feb 2017 - May 2017
  - *Hanchao Deng*, ECE@UIUC Feb 2013 - May 2013
  - *Yiming Jiang*, CS@UIUC Aug 2012 - Dec 2012

TEACHING

- CSCE 689: Machine Learning Methods in Computer Vision (Fall 2017)

- SERVICES
- Journal Editorship
- *Guest Editor*, IEEE Transactions on Neural Networks and Learning Systems (TNNLS), Special Issue on Discriminative Learning for Model Optimization and Statistical Inference.
  - *Guest Editor*, EURASIP Journal on Advances in Signal Processing (JASP) (previously *EURASIP Journal on Bioinformatics and Systems Biology (JBSB)*), Special Issue on Biomedical Informatics with Optimization and Machine Learning.
  - *Associate Editor*, *Asia-Pacific Journal of Neural Networks and Its Applications*.

- Conference Service
- *Area Chair*: ICIP 2017
  - *Tutorial Organizer*:
    - *CVPR 2017 Tutorial*: “*Dealing with Reality: Low-Quality Visual Data Processing and Analytics*”, Honolulu, Hawaii, Jun 2017.
    - *ECCV 2016 Tutorial*: “*Deep Learning Meets Model Optimization and Statistical Inference*”, Amsterdam, the Netherlands, Oct 2016.
  - *Special Session Co-Chair*:
    - *VCIP 2017 Special Session*: “*Regularization Techniques for High-Dimensional Visual Data Processing and Analysis*”, St. Petersburg, FL, Dec 2017.
  - *Technical Program Committee (or Reviewer)*:
    - 2018: AAAI, PAKDD, MIPR
    - 2017: CVPR, ACM MM, IJCAI, VCIP, SDM, IJCNN, PAKDD, MICCAI, ICIP, IROS
    - 2016: ACM MM, NIPS, ICME, ICIP, AAAI, SDM
    - 2015: ACM MM, SDM, IJCAI, ICHI
    - 2014: ACM MM, ISCMI, ISCAS

#### Workshop Service

- *Organization Committee*: IJCAI BOOM workshop (2016, 2017), IEEE FG FOR-LQ workshop (2018).
- *Program Committee Co-Chair*: ICCV AMFG 2017.
- *Program Committee Member*: ACM MM 2015 MSR-Bing Image Retrieval Challenge.
- *Website Chair*: SDM MLRec 2016.

#### Journal Reviewer

- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IEEE Transactions on Cognitive and Developmental Systems (TCDS)
- IEEE Transactions on Visualization and Computer Graphics (TVCG)
- IEEE Transactions on Big Data (TBD)
- IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)
- IEEE Signal Processing Letters (SPL)
- IEEE Geoscience and Remote Sensing Letters (GRSL)
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)
- Pattern Recognition (PR), Elsevier
- Neurocomputing, Elsevier
- Pattern Recognition Letters (PRL), Elsevier
- Image and Vision Computing (IVC), Elsevier
- Journal of Biomedical Informatics (JBI), Elsevier
- Computer Methods and Programs in Biomedicine (CMPB), Elsevier
- Multimedia Tools and Applications (MTAP), Springer
- Machine Vision and Applications (MVA), Springer
- EURASIP Journal on Image and Video Processing (JIVP)
- EURASIP Journal on Advances in Signal Processing (JASP)
- EURASIP Journal on Bioinformatics and Systems Biology (JBSB)
- MDPI Remote Sensing
- MDPI Sensors
- PLOS ONE

#### Miscellaneous

- *IEEE Member*
- *External Proposal Reviewer*: US Army Research Office
- *External Ph.D. Thesis Reviewer*: University of Technology Sydney
- *Research Mentor*: UIUC P.U.R.E research program for undergraduates
- *Academic Mentor*: USTC Abroad Study Advisor-Advisee Program
- *Online Organization Member*: VALSE
- *Student Volunteer*: AAAI 2016