Ting Wang

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Date of Birth: MAY 28,1981
Nationality: Chinese

Academic Qualifications

2016.09--	**Shanghai International Studies University**	Associate Professor	
2014.07--2016.09	**Tsinghua University**	Computer Science	Postdoc
2009.03--2013.12	**University of Liverpool**	Computer Science	PhD
2005.09--2008.06	**Guilin University of Technology**	Computer Science	MSc
1999.09--2003.07	**China University of Mining and Technology**	Computer Science	BSc

Industrial Qualifications

2014.07--2016.09   Wuxi Research Institute of Applied Technologies, Tsinghua University

Position: Director Assistant of Research Center of Web Information and Social Management

Duties: Project Management and Research in Artificial Intelligence, Machine Learning, Natural Language Processing, Data Mining and Social Media

2008.07--2009.01   Jiangnan Institute of Computing Technology

Position: Software Engineer of R&D

Duties: Research & Development for the Component of Financial Computing and Security

2005.05--2005.09   Wuxi Ltall.net Inc

Position: Software Engineer, Web Designer

Duties: System analyst, Structure design, Software development, QA, UI design

2003.07--2004.07   Micro-Star International Co., Ltd.

Position: System Analyst, Project Manager

Duties: System analyst, Structure design, QA, UI design, Training Teacher

Social Services

1. **Reviewer** of Journal of Applied Evolutionary Computation (ISSN: 1942-3594)
2. **Academic Committee Member** of Young Computer Scientists & Engineers Forum (YOCSEF), Wuxi Branch, China Computer Federation(CCF)
3. **Fellow** of the Expert Committee, Wuxi Informatization Association, Jiangsu, China
4. **Entrepreneurship Mentor** of Torch High Technology Industry Development Center, Ministry of Science and Technology, China
5. **Consultant** of Wuxi Langgao Pension Co., Ltd., and Jiangsu Digital Eagle Technology Development Co., Ltd.

Key Project Experience

Academic Research Projects:

2016.03--2016.09 Knowledge Base System Testing and Corpus Construction

Granted by:	Foundation Theory Research on Social Perception Data Processing (RMB 128,200), A Sub-project of National Basic Research Program of China (973 Program) by Tsinghua University
Duties:	Principal Investigator, System Testing and Human Annotated

2015.06--2016.09 Integrated Feature Analysis for Classification based on Incremental Attribute Learning with High-dimensional Feature Space

Granted by:	China Postdoctoral Science Foundation (RMB 50,000)
Duties:	Principal Investigator

2015.01--2017.12 Cloud Computing Service System for Digital Music and Film Making

Granted by:	National Key Technology Support Program, Ministry of Science and Technology of China, Wuxi Studio (State Digital Film Industrial Park, Wuxi) (RMB 7,840,000)
Duties:	Co-Principal Investigator, Research on Multimedia Information Retrieval

2014.12--2015.06 The Construction of Medicine and Health Knowledge Service System

Granted by:	Institute of Medical Information, Chinese Academy of Medical Sciences (RMB400,000)
Duties:	Principal Investigator

2014.07--2015.08 Industrial Efficiency Promotion Comparison of Three Culture and Technology Fusion Model Bases in Jiangsu Province

Granted by:	Jiangsu Provincial Key Culture Research Project (RMB20,000)
Duties:	C0-Principal Investigator on Data Analysis

2014.01-- 2016.12 Interference-less Machine Learning: Research and Applications

Granted by:	Jiangsu Provincial Technology and Science Foundation (RMB100,000)
Duties:	Co-Principal Investigator, Research

2011.01-- 2013.12 Theory, Algorithm and Application of Incremental Attribute Learning

Granted by: National Natural Science Foundation, China Government (RMB290,000)

Suzhou Industrial Park (RMB145,000),

Duties: Co-Principal Investigator, Application and Proposal Writing, Research

2009.10-- 2012.09 XJTLU Platform for Mathematics and Financial Computing

Granted by: Xi'an Jiaotong-Liverpool University, Suzhou Industrial Park (RMB 25,0000)

Duties: Financial data analysis and software development

2009.01-- 2011.12 Search Engine based on Natural Language Processing

Granted by: Nature and Science Fund, Guangxi Province Government (RMB80,000),

Duties: Application and Proposal Writing, Research, Software Development, Coding

2006.10--2008.12 Junk Email Filtering Model Based on Natural Language Processing

Granted by: Education Department of Guangxi Province Government (RMB12,000)

Duties: Application and Proposal Writing, System Analysis, Algorithm Design, Coding, QA

Commercial and Industrial Engineering Projects:

2016.08-- **"Startup In Shanghai, 2016" Funded Project: Man-machine Interactive Smart Wheelchairs and Internet-based Health Big Data Platform**

Supported by: Shanghai Technology Innovation Center (RMB 200,000)

Duties: Principal Investigator

2015.07-- 2016.06 Electron Microscopy 3D Image Processing Technology Development

Supported by: Wuxi 3dskyjoy Co., Ltd. (RMB 20,000)

Duties: Principal Investigator

2015.06-- 2016.07 Expert System for Radar Signal Analysis

Supported by: Tsinghua University (RMB 700,000)

Duties: Principal Investigator

2008.06-- 2008.12 SJL06 Terminal Encryption Component of Minsheng Bank

Supported by: Minsheng Bank, Jiangnan Institute of Computing Technology

Duties: Software Development, Coding

2006.05-- 2006.06 UBC Website

Supported by: Beijing Universal Business Consulting Co., Ltd.

Duties: Project Management, System Analysis, Coding, QA

2005.05-- 2005.09 "Auto Web" Online Website Construction System

Supported by: Wuxi Ltall.net Inc

Duties: Project Management, System Analysis, Coding, QA

2004.01-- 2004.07   Globe Manufacture & Maintenance System of SFIS

Supported by: Micro-Star Int'l Co., Ltd.

Duties: Project Management, System Analysis, QA

2003.11-- 2003.12   Globe HR Management System of ERP

Supported by: Micro-Star Int'l Co., Ltd.

Duties: Project Management, System Analysis, QA

2003.07-- 2003.10   Shop Floor Information System of MSI

Supported by: Micro-Star Int'l Co., Ltd.

Duties: System Analysis, Project Management, QA

Publications

Journal Papers

1. Liu F, **Wang T**, Guan S-U, Man KL. Neural Incremental Attribute Learning in Groups. International Journal of Computational Intelligence Systems. 2015;8(3):490-501

2. **Wang T**, Guan S-U, Man KL, Park JH, Hsu H-H. Output Effect Evaluation Based on Input Features in Neural Incremental Attribute Learning for Better Classification Performance. Symmetry-Basel. 2015; 7(1):53-66.

3. **Wang T.**, Guan S-U, Man KL, Ting TO, Lisitsa A. Optimized Neural Incremental Attribute Learning for Pattern Classification Based on Statistical Discriminability. International Journal of Computational Intelligence and Applications. 2014; 13, 1450019

4. **Wang T.**, Guan S-U, Man KL, Ting TO. EEG Eye State Identification Using Incremental Attribute Learning with Time Series Classification. Mathematical Problems in Engineering, Hindawi Publishing Corporation, 2014.

5. **Wang T**, Guan S-U, Puthusserypady S, Wong P W H.Statistical Discriminability Estimation for Pattern Classification based on Neural Incremental Attribute Learning. International Journal of Applied Evolutionary Computation. 2014;5(2):37-57.

6. **Wang T**, Guan S-U, Liu F. Correlation-based Feature Ordering for Classification based on Neural Incremental Attribute Learning. International Journal of Machine Learning and Computing. 2012;2(6):807-11.

7. **Wang T**, Guan S-U, Liu F. Ordered Incremental Attribute Learning based on mRMR and Neural Networks. International Journal of Design, Analysis and Tools for Integrated Circuits and Systems. 2011;2(2):86-90.

8. Mai FJ, Yue XG, Zhao ZQ, Lu Y, **Wang T**, Yue DZ. Intelligent Scoring System Based on Natural Language Processing. Journal of Guilin University of Technology. 2010;v.30(03):426-30.

9. Liang XC, Yue XG, Mai FJ, Zhao ZQ, Lu Y, **Wang T**. Research on Intelligent Search Engine Based on NLP Technology and Similarity Calculation. Journal of Kunming University of Science and Technology(Science and Technology). 2010;v.35;No.167(04):76-9+88.

10. Liang XC, Yue XG, Mai FJ, Zhao ZQ, Lu Y, **Wang T**. Algorithm Research of Subjective Question Assessment Based on Natural Language Processing. Journal of Kunming University of Science and Technology(Science and Technology). 2010;v.35;No.165(02):81-4.

11. Wang YF, Gu BG, Li YC, **Wang T**. A Method for Solving the Hidden / Exposed Terminal Problems in Ad Hoc Network by ACM (Active Collision Method). Sci-Tech Information Development & Economy. 2008;No.187(10):157-9.

12. **Wang T**, Mai FJ, Zheng AB. Path Planning Based on the Polar Coordinates, Grids, and Fuzzy Controller. Microcomputer Information. 2008;No.228(05):219-20+309.

13. Mai FJ, **Wang T**. Sense Disambiguation of Chinese Segmentation Based on Bi-direction Matching Method and HMM. New Technology of Library and Information Service. 2008;No.168(08):37-41.

14. Mai FJ, **Wang T**. Calculation Model of the Contrary Degree between Two Words. Journal of Chinese Information Processing. 2008(04):39-42.

15. Ye DH, Mai FJ, **Wang T**. A Design of A Intrusion Detection System(IDS) Based on Data Mining. Journal of Guilin College of Aerospace Technology. 2007;No.48(04):32-4.

16. **Wang T**, Mai FJ, Cheng XH. Layer Expansion of Use Case Based on Tree. Journal of Guilin University of Technology. 2007(03):442-5.

17. Song R, Liu DT, **Wang T**. A Method for SMEs--Oriented Collaborative Design System. Journal of Guilin College of Aerospace Technology. 2007;No.45(01):31-3.

18. **Wang T**, Mai FJ, Song R, Ye DH, Object Oriented Thinking of Chinese Characters' Fabrication and Information Filtration. Computer Science. 2007; v34(12), DMDCH'2007 Special Issue.

19. **Wang T**, Mai FJ, Liu Z. A Study of Natural Language Processing and its Application Prospects. Journal of Guilin College of Aerospace Technology. 2006(04):19-21.

Conference Papers

1. **Wang T**, Zhou W, Zhu X, Liu F, and Guan S-U. Integrated Feature Preprocessing for Classification Based on Neural Incremental Attribute Learning, proceedings of the 19th International Conference on Information Fusion (Fusion 2016), July 5-8, 2016, Heidelberg, Germany

2. **Wang T**, Liu F, Zhou W, Zhu X, and Guan S-U. Neural incremental attribute learning based on principal component analysis; proceedings of the 2016 IEEE International Conference on Big Data Analysis (ICBDA), F 12-14 March 2016, 2016, Hangzhou, China.

3. **Wang, T.**, Zhu, X., Guan, S.-U., Man, K.L., and Ting, T.O.: 'Regression based on neural incremental attribute learning with correlation-based feature ordering', in 2015 IEEE 7th International Conference on Cybernetics and Intelligent Systems (CIS) and IEEE Conference on Robotics, Automation and Mechatronics (RAM), (2015, edn.), pp. 109-113

4. **Wang T**., Guan, S.-U., Ma, J., and Liu, F.: 'Linear feature sensibility for output partitioning in ordered neural incremental attribute learning', in 5th International Conference on Intelligence Science and Big Data Engineering, IScIDE 2015, June 14, 2015 - June 16, 2015; (Springer Verlag, 2015, edn.), pp. 373-383

5. **Wang T**., Guan S-U, Hsu H-H ,Park JH , Man KL. Classification Capacity Evaluation Per Feature based on Neural Incremental Attribute Learning. The 2014 International Conference on Information Technology Convergence and Services (ITCS-14), Future Technology Research Association (FTRA) , October 16-18, 2014, Taipei.

6. **Wang T**., Guan S-U, Man KL, Ting TO. Time Series Classification for Electroencephalography Eye State Identification based on Incremental Attribute Learning. IEEE International Symposium on Computer, Consumer and Control (IS3C2014), 2014;10-12, June, 2014, Taichung, pp 158 - 161.

7. **Wang T**, Guan S-U, Liu F. Feature Selection in Growing Dimensional Space for Classification Based on Neural Incremental Attribute Learning. In: Liu X, Ye Y, editors. Proceedings of the 9th International Symposium on Linear Drives for Industry Applications, Volume 1: Springer Berlin Heidelberg; 2014. p. 501-7.

8. **Wang T**, Guan S-U, editors. Feature Ordering for Neural Incremental Attribute Learning based on Fisher's Linear Discriminant. 5th International Conference on Intelligent Human-Machine Systems and Cybernetics, IHMSC 2013, August 26-27, Hangzhou, China, IEEE, vol 2, pp 507-510.

9. **Wang T**, Guan S-U, Ting TO, Man KL, Liu F, editors. Evolving linear discriminant in a continuously growing dimensional space for incremental attribute learning. 9th IFIP International Conference on Network and Parallel Computing, NPC 2012, September 6, 2012 - September 8, 2012; 2012; Gwangju, Korea, Republic of: Springer Verlag.

10. **Wang T**, Guan S-U, Liu F, editors. Entropic feature discrimination ability for pattern classification based on neural IAL. 9th International Symposium on Neural Networks, ISNN 2012, July 11, 2012 - July 14, 2012; 2012; Shenyang, China: Springer Verlag.

11. **Wang T**, Guan S-U, Liu F, editors. Feature discriminability for pattern classification based on neural incremental attribute learning. Foundations of Intelligent Systems: Proceedings of the Sixth International Conference on Intelligent Systems and Knowledge Engineering, Shanghai, China, Dec 2011 (ISKE2011); 2011; Tiergartenstrasse 17, Heidelberg, D-69121, Germany: Springer Verlag.

12. **Wang T**, Wang Y, editors. Pattern classification with ordered features using mRMR and neural networks. 2010 International Conference on Information, Networking and Automation, ICINA 2010, October 17, 2010 - October 19, 2010; 2010; Kunming, China: IEEE Computer Society.

13. Mai FJ, **Wang T**, Song R. Graphite-like Semantic Framework and calculation of semantic contrary degree among words. He YX, Xiao GZ, Sun MS, editors. Singapore: Colips Publ; 2007. 90-4 p.

14. Xia Y, **Wang T**, Mai F, Zhu F, editors. Research on forbidden zone of virtual human in distributed virtual environment. 2nd Workshop on Digital Media and its Application in Museum and Heritage, DMAMH 2007, December 10, 2007 - December 12, 2007; 2007; Chongqing, China: Inst. of Elec. and Elec. Eng. Computer Society.

Patents

1. A Smart Wheelchair Control Method based on Gesture Recognition
   (Under Review, China Invention Patent Application No. 201510846850.8)
2. A Fast Measuring Method for Feature Discrimination Ability
   (Under Review, China Invention Patent Application No. 201510061146.1)

Current Research

1. Machine Learning
2. Natural Language Processing
3. Information Retrieval
4. Big Data

Languages

English: CET-6 Score: 481

IELTS (Academic) Score: 6.5 (Listen:5.5, Reading:7, Writing:6.5, Speaking:6.5)

Chinese: **Mandarin:** Native Speaker

Computer Skills

ASP, VB, HTML, Microsoft .Net C#, Python, C, Matlab, C++, Java

Honor & Awards

@ Tsinghua University

2014.10 Best Paper Award

> The 2014 International Conference on Information Technology Convergence and Services (ITCS-14), hosted Future Technology Research Association (FTRA, Korea) , October 16-18, 2014, Tamkang University, Taipei

@ University of Liverpool

2009.03   Fully-Funded PhD Scholarship

@ Guilin University of Technology

2007.09   Postgraduate Student Scholarship, 3rd Prize
2006.09   Postgraduate Student Scholarship, 3rd Prize

@ China University of Mining and Technology

2002.09   Model of scientific activities
2002.07   4th Culture festival of computer science and technology

> Competition on Web Design and Flash, 1st Prize
>
> Competition on Software Exhibition, Excellent
>
> Competition on Program Skills, 3rd Prize
>
> Special honorable award

2001.12   CUMT 2001' undergraduates' culture festival of science and technology

> Competition on Web Design (Professional group), 1st Prize

2001.04   3rd Culture festival of computer science and technology

> Competition on Web Design, 2nd Prize
>
> Competition on Application Skills, 3rd Prize
>
> Competition on Basic Knowledge, Encourage Award
>
> Competition on Articles, 2nd Prize

2000.12   Logo design of department of computer science and technology, 2nd Prize