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EDUCATION

University of Illinois at Urbana-Champaign

Ph.D. (2002), Electrical and Computer Engineering

Dissertation: *Content-Based Visualization and Retrieval for Image Libraries*

Advisor: Thomas S. Huang

Drexel University

M.S. (1996), Electrical and Computer Engineering

Advisor: Nihat M. Bilgutay

Tsinghua University, China

B.E. (1992), Electronic Engineering

RESEARCH INTERESTS

Multimedia Information Retrieval and Computer Vision

CITATION INDEXES (Updated on June 12, 2025)

Google Scholar	All	Since 2020
Citations	90613	71549
h-index	130	109
i10-index	693	535

PROFESSIONAL EXPERIENCE

Huawei CBG, Xiaoyi Department, Shenzhen, China

AI Chief Scientist in CBG, 05/2024-present

Huawei Cloud, EI Department, Shenzhen, China

AI Chief Scientist in Huawei Cloud, 03/2020-04/2024

Huawei Noah's Ark Lab, Shenzhen, China

Chief Scientist in Computer Vision, 06/2018-03/2020

University of Texas at San Antonio (UTSA)

Professor, Department of Computer Science, 12/2012-present

Associate Professor, Department of Computer Science, 04/2008-12/2012

Assistant Professor, Department of Computer Science, 09/2002-03/2008

Microsoft Research Asia (MSRA)

Lead Researcher, Media Computing Group (former Internet Media Group), September 2008 – August 2009

University of Texas Health Science Center at San Antonio (UTHSCSA)

Adjunct Assistant Professor, Department of Radiation Oncology, April 2003-August 2007

Microsoft Research Asia (MSRA), Beijing, China

Visiting Researcher, Web Search & Mining Group, July 16-August 3, 2007

University of Illinois at Urbana-Champaign (UIUC)

Visiting Scholar, Co-PI, Multimodal Information Access and Synthesis Center (MIAS), May 15 – July 11, 2007

NEC Laboratories of America, Inc., Cupertino, CA

Visiting Professor, Multimedia Software Department, summer 2003

Mitsubishi Electric Research Laboratories (MERL), Cambridge, MA

Intern Researcher, summer 2001 and summer 2002

Visiting Student Researcher, spring 2001

University of Illinois at Urbana-Champaign (UIUC)

Research Assistant, Beckman Institute for Advanced Science and Technology, Jan 1999-July 2002

Teaching Assistant, Electrical and Computer Engineering Department, August 1997-December 1998

AWARDS AND HONORS

- **Fellow of ACM** (Class of 2024)
- 2023 China Meteorological Service Association Science and Technology Award: Meteorological Technology Invention (1/6), First Prize.
- Fellow of CCF (China Computer Federation, Class of 2023)
- February 2024, Pangu-Weather AI Model was ranked 1st in **Top 10 Scientific Advances of 2023, China** by the National Natural Science Foundation of China (NSFC).
- Pangu-Weather was part of “the AI weather forecaster” recognized as **Science’s 10 breakthroughs of 2023**.
- **Best Paper Award**, ACM Multimedia 2022, October 10-14, 2022, Lisbon, Portugal.
- **CAAI Wu Wenjun Outstanding Contribution Award for Artificial Intelligence** (three per year), January 2022
- Fellow of CAAI (Class of 2022)

- **Guest Professor** in the School of Computer Science, Fudan University, January 2022-January 2025.
- **2021 Shenzhen Artificial Intelligence Award:** Shenzhen Artificial Intelligence Technology Progress Award, by Shenzhen Artificial Intelligence Society (SAAI)
- 华为云盘古大模型获得 2022 年中国多媒体大会 “中国多媒体企业创新技术”，2022 年 7 月
- 中国人工智能学会教育工作委员会第三届常务委员（任期五年），2022 年 8 月 8 日
- 浙江大学图灵讲堂主讲人荣誉证书，浙江大学竺可桢学院，2022 年 4 月 8 日
- Guest Professor, School of Computer Science, Fudan University, January 4, 2022-January 3, 2025.
- **2021 Product Gold Award** at the 4th Global Artificial Intelligence Product Application Expo, Suzhou, Sep. 9-16, 2021
- 2021, SAIL STAR (Top 10), Huawei Cloud Pangu pre-trained large model won the 2021 SAIL STAR at Shanghai World Artificial Intelligence Conference (WAIC)
- 2019 Innovation Pioneer Award (First Prize), Central Research Institute, Huawei
- **Gold Medal Interviewer Award**, in recognition of your contribution to the company's 2020 fresh graduate recruitment, Huawei
- **2019 年中央研究院总裁嘉奖令-中央研究院总裁团队奖，诺亚视觉研究创新研究团队 (1/20).**
- 2019 Minister's Joint Commendation, Huawei Technologies, Ltd.
- **2018 Huawei Team Gold Medal Award**, DaVinci Forum Organizing Committee, in recognition of distinguished performance and achievement
- 2018 Shanghai Research Institute Director Award-Foreign Cooperation Award
- **Best Paper Candidate**, ACM Multimedia 2019, October 22-26, 2019, Nice, France.
- **Best Paper Award**, the IEEE International Conference on Multimedia and Expo (ICME), July 8-12, 2019, Shanghai, China.
- **Best Overall Paper Award**, the 27th ACM International Conference on Information and Knowledge Management (CIKM), October 2018.
- **2017 UTSA President's Distinguished Award for Research Achievement (2 awardees per year, tenure-track/tenured)**
- **Fellow of IEEE** (Class of 2016)
- Guest Professor of Shanghai
- **2016 Top10 Most Influential Scholars in Multimedia** by Aminer.org
- **2016 UTSA Innovation Award** in the first category
- 2016 Yangtze River Chair Professor, China Ministry of Education
- **Best Paper Award**, the ACM International Conference on Multimedia Retrieval (ICMR), June, 2015.
- **Best Student Paper Candidate**, the IEEE International Conference on Multimedia and Expo (ICME), July 28-July 2, 2015.

- **2014 Research Achievement Award**, College of Science, the University of Texas at San Antonio.
- **Overseas Expert by the Chinese Academy of Sciences (CAS)** since 2014.
- **Best Paper Award**, the 2013 Pacific-rim Conference on Multimedia (PCM), December 2013.
- **Best Paper Award**, the 19th International Conference on Multimedia Modeling (MMM), January 2013.
- **Best Paper Award**, the 4th ACM International Conference on Internet Multimedia Computing and Service (ICIMCS 2I012), September 2012.
- **Nominee for 2014 UTSA President Distinguished Research Award.**
- **START-R Research Award**, University of Texas at San Antonio, May 2012.
- **Top 10% Best Paper Award** in International Workshop on Multimedia Signal Processing (MMSP), 2011.
- **Google Faculty Research Award**, 2010.
- **2010 ACM Service Award** presented to “Dr. Qi Tian in Appreciation for Contributions to ACM as **Program Chair, Multimedia 2009**, October 19-24, 2009.”
- **Finalist** (1 out of 18 finalists, *i.e.*, “Contextual Visual Vocabulary”) in ACM Multimedia Grand Challenge, 2010.
- **Finalist** (1 out of 18 finalists, *i.e.*, “Learning to Photograph”) in ACM Multimedia Grand Challenge, 2010.
- **Visiting Chaired Professor** in Center for Neural and Cognitive Computation, Tsinghua University, November 2010-December 2012, and Phase II: January 2013- December 2015. The host professor is Prof. Bo Zhang.
- **Best Student Poster Presentation** (with my PhD student Jie Xiao) in 2010 Research Conference of College of Science, UTSA.
- **Adjunct Professor** (*honorable recognition*), Beijing Jiaotong University, December 2015-December 2018.
- **Adjunct Professor** (*honorable recognition*), Guangxi Normal University, July 1, 2015.
- **Adjunct Professor** (*honorable recognition*), Institute of Computing Technology, Chinese Academy of Science, June 2013-June 2016.
- **Adjunct Professor** (*honorable recognition*), School of Electronic and Information Engineering, Xi'an Jiaotong University, April 2012- April 2015.
- **Adjunct Professor** (*honorable recognition*), Department of Electronic Engineering and Information Science, University of Science and Technology of China (USTC), May 2010-April 2013.
- **Adjunct Professor** (*honorable recognition*), College of Computer Science and Technology, Zhejiang University, Hangzhou, China, December 2009 – November 2012.
- **Adjunct Professor** (*honorable recognition*), Xidian University, Xi'an, China, November 2009 – October 2012.
- **Microsoft Research Faculty Summer Summit 2008**, July 27-29, 2008, Redmond, WA. This is by invitation-only event.

- **Nominee for 2008 and 2011 UTSA President Distinguished Research Award**
- **Best Paper Candidate in Retrieval Track**, with Yijuan Lu and Jingsheng Ma, *Pacific-rim Conference on Multimedia (PCM)*, 2007.
- **Student Contest Paper Award**, with Jie Yu, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2006.
- **Plaque Certificate** from ACM SIGMM for “Dr. Qi Tian’s contributions as Publicity Co-Chair of the 14th International ACM Conference on Multimedia 2006.”
- **Top 5 Teachers** of Computer Science Department in the Dean’s list, College of Science, UTSA, 2006.
- **Faculty Research Award**, University of Texas at San Antonio, 2004.
- **Graduate Fellowship**, Drexel University, 1997.
- **Outstanding Undergraduate Student Award**, Tsinghua University, 1988-1991.

PUBLICATIONS

Four edited conference proceedings and book chapters, **373** refereed journal articles published or in press including leading journals such as *IEEE Transactions on Pattern Analysis and Machine Intelligence* (PAMI, 2023 IF:24.31), *ACM Computing Survey*, (2022-2023 IF: 14.324) *IEEE Transactions on Image Processing* (TIP, 2022-2023 IF: 11.041), *IEEE Transactions on Multimedia* (TMM, 2022-2023 IF: 8.182), *International Journal of Computer Vision* (IJCV, 2022-2023 IF: 13.369), *IEEE Transactions on Circuit and Systems for Video Technology* (TCSVT, 2023 IF: 8.4), *Pattern Recognition* (PR, 2022-2023 IF: 8.518), *Journal of Information Science* (2023 IF: 2.462), *Signal Processing, an international journal of the European Association for Signal Processing* (EURASIP, 2022-2023 IF: 2.559), *Journal of Computer Vision and Image Understanding* (CVIU, 2022-2023 IF: 4.886), *Neurocomputing* (2022-2023 IF: 5.779), *Journal of Visual Communication and Image Representation* (2023 IF: 2.6), *Pattern Recognition Letters* (2022-2023 IF: 4.757), *IEEE Multimedia Magazine* (2022-2023 IF: 3.491), *ACM Transactions on Multimedia Computing, Communications and Applications* (ACM TOMM, IF: 4.094), *IEEE Transactions on Computational Biology and Bioinformatics* (TCBB, 2022-2023 IF: 3.702). Five other journal articles were published in Chinese.

Names in italic are my research advisees or co-advised students. A complete list is attached.

Patents

- [P-1]. U.S. Patent # 9412020, issued 08/09/2016. Geometric Coding for Billion-scale Partial-Duplicate Image Search. Inventors: **Qi Tian**, Wengang Zhou, Houqiang Li, and Yijuan Lu.
- [P-2]. U.S. Patent # 9317533, issued on 4/19/2016. Adaptive Retrieval Database. Inventors: Linjun Yang, **Qi Tian**, Bingbing Ni.
- [P-3]. U.S. Patent # 8891908, issued 11/18/2014. Semantic-aware Co-indexing for Near-Duplicate Image Retrieval, Inventors: Ming Yang, Xiaoyu Wang, Yuanqing Lin, **Qi Tian**.
- [P-4]. U.S. Patent #8875007, issued 10/28/2014. Creating and Modifying an Image Wiki Page. Inventors: Linjun Yang, **Qi Tian**.

- [P-5]. U.S. Patent # 8463045, issued 6/11/2013. Hierarchical Sparse Representation for Image Retrieval. Inventors: Linjun Yang, **Qi Tian**, and Bingbing Ni.
- [P-6]. U.S. Patent #6792434, issued 9/14/2004. Content-Based Visualization and User-Modeling for Interactive Browsing and Retrieval in Multimedia Databases. Inventors: Baback Moghaddam, **Qi Tian**, Xiang S. Zhou.
- [P-7]. Junhua Mao, Houqiang Li, Wengang Zhou and **Qi Tian**. A Method for Multilingual Scene Text Detection, Patent Application Number: 201210241520.2, filed by UTSC October 2012.

Book or Book Chapters

- [B-1]. Susanne Boll, **Qi Tian**, Lei Zhang, Zili Zhang, and Yi-Ping Phoebe Chen (Eds.), LNCS 5916, *Advances in Multimedia Modeling*, MMM 2010, Chongqing, China, January 5-8, 2010, Springer.
- [B-2]. **Q. Tian**, B. Moghaddam, N. Lesh, C. Shen, and T.S. Huang, "Visualization, Estimation and User-Modeling for Interactive Browsing of Personal Photo Libraries," Chapter 9, pp. 193-222, Book Chapter of *Managing Multimedia Semantics*, edited by Dr. U. Srinivasan and Dr. S. Nepal, ICT Centre CSIRO, Australia, July 2005, ISBN 1-59140-569-6.
- [B-3]. **Q. Tian**, Y. Wu, J. Yu and T.S. Huang, "Self-Supervised Learning Based on Discriminative Nonlinear Features and Its applications for Pattern Classification," Chapter 3, pp.52-75, Book Chapter of *Managing Multimedia Semantics*, edited by Dr. U. Srinivasan and Dr. S. Nepal, ICT Centre CSIRO, Australia, July, 2005, ISBN 1-59140-569-6.
- [B-4]. J. Yu, J. Amores, N. Sebe, and **Q. Tian**, "Ranking Metrics and Evaluation Measures," **invited book chapter**, *Advances in Imaging and Electron Physics, Elsevier*, Vol. 144, pp. 291-316, 2006.

Journal Articles

- [J-1]. Yunjie Tian, Lingxi Xie, Jiemin Fang, Jianbin Jiao, and **Qi Tian**, "Beyond masking: Demystifying token-based pre-training for vision transformers," *Pattern Recognit (PR)*, Vol 153, 111386, June 2025.
- [J-2]. Zhichao Wang, Lin Guo, Shuchang Zhao, Shiqing Zhang, Xiaoming Zhao, Jiangxiong Fang, Guoyu Wang, Hongsheng Lu, Jun Yu, and **Qi Tian**, "Multi-Scale Group Agent Attention-Based Graph Convolutional Decoding Networks for 2D Medical Image Segmentation," *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 29(4), pp:2718-2730, April 2025.
- [J-3]. Yunjie Tian, Lingxi Xie, Jiemin Fang, Jianbin Jiao, Qixiang Ye, and **Qi Tian**, "Exploring Complicated Search Spaces with Interleaving-Free Sampling," *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. Vol 36(4), pp: 7764-7771, April 2025.
- [J-4]. Jiannan Ge, Zhihang Liu, Pandeng Li, Lingxi Xie, Yongdong Zhang, **Qi Tian**, and Hongtao Xie, "Denoised and Dynamic Alignment Enhancement for Zero-Shot Learning", *IEEE Transactions on Image Processing (TIP)*, Vol 34, pp:1501-1515, Mar 2025.

- [J-5]. Zhihan Zhou, Yushi Ye, Feng Hong, Peisen Zhao, Jiangchao Yao, Ya Zhang, **Qi Tian**, and Yanfeng Wang, “Uncover the Balanced Geometry in Long-Tailed Contrastive Language-Image Pretraining,” *Machine Learning*, Vol. 114(4), 106, February 2025.
- [J-6]. Zhicai Wang, Ouxiang Li, Tan Wang, Longhui Wei, Yanbin Hao, Xiang Wang, and **Qi Tian**, “Prior Preserved Text-to-Image Personalization Without Image Regularization,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*. Vol 35(2), pp: 1318-1330, February 2025.
- [J-7]. Shaofei Cai, Liang Li, Xinzhe Han, Shan Huang, **Qi Tian**, and Qingming Huang, “Semantic and Correlation Disentangled Graph Convolutions for Multilabel Image Recognition,” *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. Vol 36(1), pp: 1609-1621, January 2025.
- [J-8]. Hengtong Hu, Lingxi Xie, Xinyue Huo, Richang Hong, and **Qi Tian**, “One-Bit Supervision for Image Classification: Problem, Solution, and Beyond,” *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, Vol. 20(4), pp:113:1-113:22, 2024.
- [J-9]. Yawen Cui, Zitong Yu, Wei Peng, **Qi Tian**, and Li Liu, “Rethinking Few-Shot Class-Incremental Learning With Open-Set Hypothesis in Hyperbolic Geometry, ” *IEEE Transactions on Multimedia (TMM)* , Vol. 26, pp: 5897-5910, 2024.
- [J-10]. Lin Liu, Junfeng An, Shanxin Yuan, Wengang Zhou, Houqiang Li, Yan-Feng Wang, and **Qi Tian**, “Video Demoiréing with Deep Temporal Color Embedding and Video-Image Invertible Consistency,” *IEEE Transactions on Multimedia (TMM)*, Vol. 26, pp: 7386-7397, 2024.
- [J-11]. Liping Bao, Longhui Wei, Wengang Zhou, Lin Liu, Lingxi Xie, Houqiang Li, and **Qi Tian**, “Multi-Granularity Matching Transformer for Text-Based Person Search,” *IEEE Transactions on Multimedia (TMM)*, Vol. 26, pp: 4281-4293, 2024.
- [J-12]. Duzhen Zhang, Feilong Chen, Jianlong Chang, Xiuyi Chen, and **Qi Tian**, “Structure Aware Multi-Graph Network for Multi-Modal Emotion Recognition in Conversations,” *IEEE Transactions on Multimedia (TMM)*, Vol. 26, pp: 3987-3997, 2024.
- [J-13]. Beichen Zhang, Liang Li, Shuhui Wang, Shaofei Cai, Zheng-Jun Zha, **Qi Tian**, and Qingming Huang , “Inductive State-Relabeling Adversarial Active Learning With Heuristic Clique Rescaling,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46(12), pp: 9780-9796, December 2024.
- [J-14]. Hu Cao, Guang Chen, Hengshuang Zhao, Dongsheng Jiang, Xiaopeng Zhang, **Qi Tian**, and Alois Knoll, “SDPT: Semantic-Aware Dimension-Pooling Transformer for Image Segmentation,” *IEEE Transactions on Intelligent Transportation Systems*, Vol.25(11), pp: 15934-15946, November 2024.
- [J-15]. Chen Yang, Sikuang Li, Jiemin Fang, Ruofan Liang, Lingxi Xie, Xiaopeng Zhang, Wei Shen, and **Qi Tian**, “GaussianObject: High-Quality 3D Object Reconstruction from Four Views with Gaussian Splatting,” *ACM Transactions on Graphics (TOG)*, Vol. 43(6), No. 199, pp: 1-13, November 2024.

- [J-16]. Zhizhong Zhang, Yuan Xie, Chong Zhang, Yanbo Wang, Yanyun Qu, Shaohui Lin, Lizhuang Ma, and **Qi Tian**, “Dynamic Image Super-resolution via Progressive Contrastive Self-distillation,” *Pattern Recognition (PR)*, Vol. 153, 110502, September 2024.
- [J-17]. Shijie Wang, Zhihui Wang, Haojie Li, Jianlong Chang, Wanli Ouyang, and **Qi Tian**, “Accurate Fine-Grained Object Recognition with Structure-Driven Relation Graph Networks,” *International Journal of Computer Vision (IJCV)*, Vol 132(1), pp:137-160, August 2024.
- [J-18]. Shiqing Zhang, Xingnan Zhang, Xiaoming Zhao, Jiangxiong Fang, Mingyue Niu, Ziping Zhao, Jun Yu, and **Qi Tian**, “MTDAN: A Lightweight Multi-Scale Temporal Difference Attention Networks for Automated Video Depression Detection,” *IEEE Transactions on Affective Computing*, Vol. 15(3), pp: 1078-1089, July-September 2024.
- [J-19]. Bruce X. B. Yu, Jianlong Chang, Haixin Wang, Lingbo Liu, Shijie Wang, Zhiyu Wang, Junfan Lin, Lingxi Xie, Haojie Li, Zhouchen Lin, **Qi Tian**, and Chang Wen Chen, “Visual Tuning,” *ACM Computing Surveys*, Vol 56(12), pp:1-38, July 2024.
- [J-20]. Yuan Yao, Fang Wan, Wei Gao, Xingjia Pan, Zhiliang Peng, **Qi Tian**, and Qixiang Ye, “TS-CAM: Token Semantic Coupled Attention Map for Weakly Supervised Object Localization,” *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, Vol. 35(7), pp: 9109-9121, July 2024.
- [J-21]. Xing Nie, Bolin Ni, Jianlong Chang, Gaofeng Meng, Chunlei Huo, Shiming Xiang, and **Qi Tian**, “Pro-Tuning: Unified Prompt Tuning for Vision Tasks,” *IEEE Transactions on Circuits Systems and Video Technology (TCSVT)*. Vol. 34(6), pp: 4653-4667, June 2024.
- [J-22]. Shijie Wang, Jianlong Chang, Zhihui Wang, Haojie Li, Wanli Ouyang, and **Qi Tian**, “Content-Aware Rectified Activation for Zero-Shot Fine-Grained Image Retrieval,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46(6), pp: 4366-4380, June 2024.
- [J-23]. Xiaohan Zhang, Songlin Dong, Jinjie Chen, **Qi Tian**, and Yihong Gong, Xiaopeng Hong, “Deep Class-Incremental Learning from Decentralized Data,” *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, Vol. 35(5), pp: 7190-7203, May 2024.
- [J-24]. Kaiwen Duan, Song Bai, Lingxi Xie, Honggang Qi, Qingming Huang, and **Qi Tian**, “CenterNet++ for Object Detection,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46(5), pp: 3509-3521, May 2024.
- [J-25]. Xinyue Huo, Lingxi Xie, Hengtong Hu, Wengang Zhou, Houqiang Li, and **Qi Tian**, “Domain-Agnostic Priors for Semantic Segmentation Under Unsupervised Domain Adaptation and Domain Generalization,” *International Journal of Computer Vision (IJCV)*, Vol 132(9), pp: 3954-3976, April 2024.
- [J-26]. Wentao Zhu, Xiaoxuan Ma, Dongwoo Ro, Hai Ci, Jinlu Zhang, Jiaxin Shi, Feng Gao, **Qi Tian**, and Yizhou Wang, “Human Motion Generation: A Survey,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46(4), pp: 2430-2449, April 2024.
- [J-27]. Hanbin Zhao, Yongjian Fu, Mintong Kang, **Qi Tian**, Fei Wu, and Xi Li, “MgSvF: Multi-Grained Slow versus Fast Framework for Few-Shot Class-Incremental Learning,” *IEEE*

- Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46(3), pp: 1576-1588, March 2024.
- [J-28]. Ran Ran, Liang-Jian Deng, Tian-Jing Zhang, Jianlong Chang, Xiao Wu, and **Qi Tian**, “KNLConv: Kernel-Space Non-Local Convolution for Hyperspectral Image Super-Resolution,” *IEEE Transactions on Multimedia (TMM)*, Vol. 26, pp: 8836-8848, March 2024.
- [J-29]. Jiazhong Cen, Zekun Jiang, Lingxi Xie, Dongsheng Jiang, Wei Shen, and **Qi Tian**, “Consensus Synergizes with Memory: A Simple Approach for Anomaly Segmentation in Urban Scenes,” *IEEE Transactions on Circuits Systems and Video Technology (TCSVT)*. Vol. 34(2), pp: 1086-1097, February 2024.
- [J-30]. Xin Chen, Xiaoling Deng, Yubin Lan, Yongbing Long, Jian Weng, Zhiquan Liu, and **Qi Tian**, “Explanatory Object Part Aggregation for Zero-Shot Learning,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46, No. 2, pp: 851-868, February 2024.
- [J-31]. Chen Gao, Si Liu, Jinyu Chen, Luting Wang, Qi Wu, Bo Li, and **Qi Tian**, “Room-Object Entity Prompting and Reasoning for Embodied Referring Expression,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46, No. 2, pp: 994-1010, February 2024.
- [J-32]. Tao Yao, Ruxin Wang, Jintao Wang, Ying Li, Jun Yue, Lianshan Yan, and Qi Tian, “Efficient Supervised Graph Embedding Hashing for large-scale cross-media retrieval,” *Pattern Recognition*, Vol. 145, Issue C, January 2024.
- [J-33]. Min Wang, Wengang Zhou, Xin Yao, **Qi Tian**, and Houqiang Li, “Towards Codebook-free Deep Probabilistic Quantization for Image Retrieval,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 46, No. 1, pp: 626-640, January 2024.
- [J-34]. Shijie Wang, Zhihui Wang, Haojie Li, Jianlong Chang, Wanli Ouyang, and **Qi Tian**, “AccurateFine-Grained Object Recognition with Structure-Driven Relation Graph Networks,” *International Journal on Computer Vision (IJCV)*, Vol. 132, Issue 1, pp: 137-160, 2024.
- [J-35]. Haonan Chen, Yingying Zhu, Junqi Zhao, and **Qi Tian**, “3D Shape Recognition Based on Multimodal Relation Modeling,” *International Journal of Software and Informatics*, Vol. 14, Issue 2, pp: 205-220, 2024.
- [J-36]. Guilong Chen, Jiayi Huang, Guanghai Chen, Xin Chen, Xiaoling Deng, Yubin Lan, Yongbing Long, and **Qi Tian**, “GaitGMT: Global Feature Mapping Transformer for Gait Recognition,” *Journal of Visual Communication and Image Representation*, Vol. 100, 104139, 2024.
- [J-37]. Xuemeng Song, Liqiang Nie, Hengtao Shen, **Qi Tian**, and Hua Huang, “Preface to the Special Issue on Multimodal Learning Integrated with Pre-training Techniques,” *International Journal of Software and Informatics*, Vol. 13, Issue 2, pp. 139-142, 2023.
- [J-38]. Zijie Yang, Lingxi Xie, Wei Zhou, Xinyue Huo, Longhui Wei, Jian Lu, **Qi Tian**, Sheng Tang, “VoxSeP: Semi-Positive Voxels Assist Self-Supervised 3D Medical Segmentation,” *Multimedia Systems*, Vol. 29(1), pp. 33-48, 2023.
- [J-39]. Chen Ju, Peisen Zhao, Siheng Chen, Ya Zhang, Xiaoyun Zhang, Yanfeng Wang, and **Qi Tian**, “Adaptive Mutual Supervision for Weakly-Supervised Temporal Action Localization,” *IEEE Transactions on Multimedia (TMM)*, Vol. 25, pp: 6688-6701, 2023.

- [J-40]. Shijie Wang, Zhihui Wang, Haojie Li, Jianlong Chang, Wanli Ouyang, and **Qi Tian**, “Semantic Guided Information Alignment Network for Fine-Grained Image Recognition,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, Vol. 33, No. 11, pp: 6558-6570, November 2023.
- [J-41]. Shengping Zhang, Chenyang Wang, Liqiang Nie, Hongxun Yao, Qingming Huang, and **Qi Tian**, “Correction to: Learning Enriched Hop-Aware Correlation for Robust 3D Human Pose Estimation,” *International Journal of Computer Vision (IJCV)*, Vol. 131, No. 11, pp. 3119, November 2023.
Shengping Zhang, Chenyang Wang, Liqiang Nie, Hongxun Yao, Qingming Huang, and **Qi Tian**, “Learning Enriched Hop-Aware Correlation for Robust 3D Human Pose Estimation,” *International Journal of Computer Vision (IJCV)*, Vol. 131, pp. 1566-1583, June 2023.
- [J-42]. Kaifeng Bi, Lingxi Xie, Hengheng Zhang, Xin Chen, Xiaotao Gu, and **Qi Tian**, “Accurate medium-range global weather forecasting with 3D neural networks,” *Nature*, Volume 619, pages: 533–538, 2023.
- [J-43]. Binghao Liu, Boyu Yang, Lingxi Xie, Ren Wang, **Qi Tian**, and Qixiang Ye, “Learnable Distribution Calibration for Few-Shot Class-Incremental Learning,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 45, No. 10, pp: 12699-12706, October 2023.
- [J-44]. Peng Zhou, Lingxi Xie, Bingbing Ni, and **Qi Tian**, “CIPS-3D++: End-to-End Real-Time High-Resolution 3D-Aware GANs for GAN Inversion and Stylization,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 45, No. 10, pp: 11502-11520, September 2023.
- [J-45]. Lanfei Wang, Lingxi Xie, Kaili Zhao, Jun Guo, and **Qi Tian**, “Regularized Differentiable Architecture Search,” *IEEE Embedded Systems Letters*, Vol. 15, No. 3, pp: 129-132, September 2023.
- [J-46]. Rui Yan, Lingxi Xie, Jinhui Tang, Xiangbo Shu, and **Qi Tian**, “HiGCIN: Hierarchical Graph-Based Cross Inference Network for Group Activity Recognition,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 45, No. 6, pp: 6955-6968, August 2023.
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- [C-460]. **Q. Tian**, X. Li, and N. M. Bilgutay, "An Iterative Spectral Method for Multiple Target Detection," *IEEE Int'l Ultrasonics Symposium (US'1995)*, Vol. 1, pp. 712-724, Seattle, WA, November 7-10, 1995.
- [C-461]. X. Li, W. Fang, and **Q. Tian**, "Error Analysis and Robust Data Fusion," *1994 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'1994)*, Vol. 4, pp. 37-40, Adelaide, Australia, April 1994.

Part IV: Demonstration

- [C-462]. Y. Yang, Q. Liu, Y. Gao, B. Xiong, L. Yu, H. Luan, R. Ji, and **Q. Tian**, "Stereotime: A Wireless 2D and 3D Switchable Video Communication System," *Technical Demo Paper at the 21st ACM International Conference on Multimedia*, Barcelona, Spain, October 21-25, 2013.
- [C-463]. W. Zhou, Y. Lu, H. Li, Y. Song, and **Q. Tian**, "Large Scale Partially Duplicated Web Image Retrieval," industrial demo paper at *ACM Multimedia*, pp. 1523-1524, Florence, Italy, October 25-29, 2010.
- [C-464]. S. Chen, J. Wang, B. Wang, L. Duan, **Q. Tian**, H. Lu, "AdVR: Linking Ad Video with Products or Service," *The 16th International Conference on Multimedia Modeling (MMM)*, Chongqing, China, January 5-8, 2010.
- [C-465]. S. L. Zhang, Q. Huang, **Q. Tian**, S. Qiang, and W. Gao, "i.MTV - An Integrated System for MTV Affective Analysis," *ACM Multimedia*, Technical Demonstrations, Pan Pacific Hotel, Vancouver, BC, Canada, October 27-November 1, 2008.
- [C-466]. N. Sebe, **Q. Tian**, E. Loupiaz, M. S. Lew, and T. S. Huang, "Salient Points for Image Retrieval," *IEEE Int'l Conf. on Computer Vision and Pattern Recognition (CVPR'2001)*, Kauai, Hawaii, December 9-14, 2001.
- [C-467]. **Q. Tian** and T. S. Huang, "Content-Based Image Retrieval," Open House, *Symposium on Information Technology*, Coordinated Science Laboratory (CSL): 50 Years of Research Excellence, University of Illinois at Urbana-Champaign, October 26, 2001.

TALKS

This list does not include the refereed conference presentations.

- [T-1]. **Keynote** "Towards the Next Generation of Neural Architecture Search," IEEE Multimedia Information Processing and Retrieval (MIPR), August 8, 2020. The host is Prof. Yonghong Tian.
- [T-2]. Shanghai University, August 15, 2017. The host is Prof. Dan Zeng.

- [T-3]. Jinan University, August 8, 2017. The host is Prof. Jian Weng.
- [T-4]. Chongqing University of Posts and Telecommunications, August 6, 2017. The host is Prof. Guoying Wang.
- [T-5]. **Keynote** “Person Re-identification: Benchmarks and Our Solutions” at 2017 IEEE Conference on Intelligent Media Computing, August 4, 2017, Wuhan, China.
- [T-6]. Xi’an University of Electronic Science and Technology, July 17, 2017. The host is Prof. Ying Liu.
- [T-7]. Northwestern Polytechnical University, July 16, 2017. The host is Prof. Yanning Zhang.
- [T-8]. Visual Computing Summer School, Qingdao, Shandong, China, July 13, 2017. The host is Prof. Baoquan Chen.
- [T-9]. Central South University, June 28, 2017. The host is Prof. Jianxin Wang.
- [T-10]. Jiangxi University of Finance and Economics, June 16, 2017. The host is Prof. Yuming Fang.
- [T-11]. Guangzhou University, May 18, 2017. The host is Prof. Jin Li.
- [T-12]. Huzhou University, May 14, 2017. The host is Prof. Jungang Lou.
- [T-13]. **Invited talk** titled “Large-Scale Visual Search” at ByteDance, May 8, 2017. The host is Dr. Weiyang Ma.
- [T-14]. Beijing University of Technology, January 5, 2017. The host is Prof. Li Zhuo.
- [T-15]. Beijing Jiaotong University, January 4, 2017. The host is Prof. Yao Zhao and Prof. Rongrong Ni.
- [T-16]. Beihang University, January 3, 2017. The host is Prof. Bo Li.
- [T-17]. **Keynote**, 2016 3rd International Conference on Information Sciences and Control Engineering (ICISCE), July 8-10, 2016, Beijing, China.
- [T-18]. Hefei University of Technology, August 13, 2016. The host is Prof. Meng Wang.
- [T-19]. Hunan University, August 1, 2016. The host is Prof. Kenli Li.
- [T-20]. Xiangtan University, August 2, 2016. The host is Prof. Zhetao Li.
- [T-21]. Taizhou University, July 28, 2016. The host is Prof. Shiqing Zhang.
- [T-22]. Beihang University, July 19, 2019. The host is Prof. Bo Li.
- [T-23]. Taiyuan University of Technology, July 5, 2016. The host is Prof. Yan Qiang.
- [T-24]. South China University of Technology, June 21, 2016. The host is Prof. Jun Zhang.
- [T-25]. Beihang University, June 16, 2016. The host is Prof. Jianwei Niu.
- [T-26]. Shandong University, June 15, 2016. The host is Prof. Baoqun Chen.
- [T-27]. Guilin University of Electronic Technology, December 23, 2015. The host is Prof. Zetao Jiang.
- [T-28]. **Invited talk** titled “Large-Scale Visual Search” at Blippar, Mountain View, California, November 13, 2015. The host is Dr. Jason Xu.
- [T-29]. Anhui University, July 23, 2015. The host is Prof. Jing Tang.
- [T-30]. Guangxi Normal University, July 20, 2015. The host is Prof. Zhengjun Tang.
- [T-31]. Guilin University of Electronic Technology, July 20, 2015. The host is Prof. Zetao Jiang.
- [T-32]. Beijing University of Posts and Telecommunications, July 17, 2015. The host is Prof. Huadong Ma.

- [T-33]. University of Electronic Science and Technology of China, July 6, 2015. The host is Prof. Bing Zeng.
- [T-34]. Shanghai Jiaotong University, June 23, 2015. The host is Prof. Xiaokang Yang.
- [T-35]. Anhui University, June 18, 2015. The host is Prof. Teng Li.
- [T-36]. University of Science and Technology of China, June 17, 2015. The host is Prof. Houqiang Li.
- [T-37]. Beihang University, June 12, 2015. The host is Prof. Xiaowu Chen.
- [T-38]. Beijing Institute of Technology, June 12, 2015. The host is Prof. Hua Huang.
- [T-39]. Beijing Jiaotong University, June 11, 2015. The host is Prof. Yao Zhao.
- [T-40]. Zhejiang University, in the morning of June 5, 2015. The host is Prof. Fei Wu and Yueting Zhuang.
- [T-41]. Zhejiang University of Technology, in the afternoon of June 5, 2015. The host is Prof. Cong Bai.
- [T-42]. Institute of Computing Technology, Chinese Academy of Sciences, June 4, 2015. The host is Prof. Shiguang Shan.
- [T-43]. Tsinghua University, June 3, 2015. The host is Prof. Peng Cui.
- [T-44]. University of Chinese Academy of Sciences, May 30, 2015. The host is Prof. Ke Lv.
- [T-45]. Beijing University of Technology, May 22, 2015. The host is Prof. Li Zhuo.
- [T-46]. Xiamen University, May 20, 2015. The host is Prof. Shaozi Li.
- [T-47]. Sanxia University, May 14, 2015. The host is Prof. Shuifa Sun and Prof. Ke Lv.
- [T-48]. Hangzhou Dianzi University, May 13, 2015. The host is Prof. Jun Yu.
- [T-49]. Nanjing University of Information Science and Technology, May 12, 2015. The host is Prof. Qingshan Liu.
- [T-50]. **Keynote** talk titled “Discriminative Visual Representation for Image Search and Classification,” at Vision And Learning Seminar (Valse 2015), Chengdu, May 10, 2015. The host is Dr. Shiguang Shan.
- [T-51]. Beijing Jiaotong University, January 7, 2015. The host is Prof. Yao Zhao.
- [T-52]. Tsinghua University, January 6, 2015. The host is Prof. Peng Cui and Prof. Wenwu Zhu.
- [T-53]. Shenzhen University, December 31, 2014. The host is Prof. Yingying Zhu.
- [T-54]. Xiamen University, December 26, 2014. The host is Prof. Shaozi Li.
- [T-55]. Hefei University of Technology, December 19, 2014. The host is Prof. Richang Hong.
- [T-56]. **Invited talk** at Taobao, Alibaba, August 14, 2014. The host is Dr. Pan Qi.
- [T-57]. Institute of Automation, Chinese Academy of Science, August 13, 2014. The host is Prof. Jian Cheng.
- [T-58]. Beihang University, August 9, 2014. The host is Prof. Xiaowu Cheng.
- [T-59]. Institute of Intelligent Machines, Chinese Academy of Sciences, Hefei, Anhui, China, July 28, 2014. The host is Prof. Zheng-Jun Zha.
- [T-60]. Anhui University, July 26, 2014. The host is Prof. Teng Li.
- [T-61]. Huazhong University of Science and Technology, July 25, 2014. The host is Prof. Xiang Bai.
- [T-62]. Wuhan University, July 24, 2014. The host is Prof. Ruimin Hu.

- [T-63]. Shanghai Jiaotong University, July 18, 2014. The host is Prof. Hongkai Xiong.
- [T-64]. **Invited Talk** at Summer School at Tongji University, July 18, 2014. The host is Prof. Jun Wu.
- [T-65]. University of Electronic Science and Technology of China (UESTC), July 15, 2014. The host is Prof. Hongliang Li.
- [T-66]. Southwest Jiaotong University, July 14, 2014. The host is Prof. Xiao Wu.
- [T-67]. **Invited Talk** at Tsinghua Seminar on Social Media Computing, July 9, 2014. The host is Prof. Shiqiang Yang.
- [T-68]. University of Chinese Academy of Science, June 25, 2014. The host is Prof. Jinghu Lv.
- [T-69]. Fudan University, June 13, 2014. The host is Prof. Yugang Jiang.
- [T-70]. Shanghai University, June 12, 2014. The host is Prof. Dan Zeng.
- [T-71]. Zhejiang University, June 6, 2014. The host is Prof. Yueting Zhuang and Prof. Fei Wu.
- [T-72]. Beijing University of Technology, May 24, 2014. The host is Prof. Li Zhuo.
- [T-73]. Dalian University of Technology, May 19, 2014. The host is Prof. Xiangwei Kong.
- [T-74]. University of Illinois at Urbana-Champaign, Image Formation and Processing Group, April 25, 2014. The host is Prof. Thomas S. Huang.
- [T-75]. National University of Singapore, December 27, 2013. The host is Prof. Tat-Seng Chua.
- [T-76]. Wuhan University, China, December 10, 2013. The host is Prof. Ruimin Hu.
- [T-77]. Institute of Computing Technology, Chinese Academy of Science, August 23, 2013. The host is Dr. Yongdong Zhang.
- [T-78]. Beijing University of Technology, August 21, 2013. The host is Prof. Li Zhuo.
- [T-79]. University of Science and Technology of China, August 20, 2013. The host is Prof. Houqiang Li.
- [T-80]. Institute of Intelligent Machines, Chinese Academy of Sciences, Hefei, Anhui, China, August 19, 2013. The host is Prof. Zengfu Wang and Dr. Zheng-Jun Zha.
- [T-81]. Fudan University, August 16, 2013. The host is Prof. Bo Yan and Prof. Xiangyang Xue.
- [T-82]. Shanghai Jiaotong University, August 15, 2013. The host is Prof. Xiaokang Yang.
- [T-83]. Tongji University, August 14, 2013. The host is Prof. Jun Wu.
- [T-84]. The mini-workshop at Dalian University of Technology, July 31, 2013. The host is Prof. Yi Sun and Prof. Changwen Chen.
- [T-85]. University of Electronic Science and Technology of China, July 27, 2013. The host is Prof. Hong Cheng.
- [T-86]. **Invited Keynote Speech** at 2013 IEEE Forum on Media Computing and Communication, Xidian University, Xi'an, China, July 21, 2013.
- [T-87]. Xi'an Jiaotong University, July 21, 2013. The host is Prof. Xueming Qian.
- [T-88]. Dalian University of Technology, June 23, 2013. The host is Prof. Haojie Li.
- [T-89]. Anhui University, May 28, 2013. The host is Prof. Teng Li.
- [T-90]. Xiamen University, December 10, 2012. The host is Prof. Shaozi Li.

- [T-91]. **Invited Keynote Speech** at 2012 IET International Conference on Information Science and Control Engineering (ICISCE 2012, Dec 7-9, 2012, <http://www.icisce.org/>) on December 8 in Shenzhen, China. The host is Prof. Shaozi Li, the general conference chair.
- [T-92]. Tsinghua University, July 11, 2012. The host is Prof. Shengjin Wang.
- [T-93]. Baidu, June 11, 2012. The host is Dr. Kai Yu.
- [T-94]. Tianjing University, China, June 11, 2012. The host is Prof. Yahong Han and Prof. Jianming Jiang.
- [T-95]. Microsoft Research Asia, May 28, 2012. The host is Dr. Shipeng Li and Dr. Yi Ma.
- [T-96]. Northwestern University, May 2, 2012. The host is Prof. Ying Wu.
- [T-97]. Image Formation and Processing (IFP) Group, Beckman Institute of Technology, University of Urbana-Champaign, May 4, 2012. The host is Prof. Thomas S. Huang
- [T-98]. **Invited Talk** at Microsoft Bing, Redmond, WA. February 10, 2012. The host is Dr. Xian-Sheng Hua.
- [T-99]. **Invited Talk** at Microsoft Research, Redmond, WA. February 9, 2012. The host is Dr. Zhegnyou Zhang.
- [T-100]. **Invited Talk** at the First China-Singapore Open Workshop on Media Science, Huangshan, Anhui, China, January 10, 2012. The host is Prof. Tat Seng Chua.
- [T-101]. **Invited Talk** at Yahoo Research China, Beijing, China, January 5, 2012. The host is Nan Huang.
- [T-102]. Xidian University, Xi'an, Shanxi, China, December 31, 2011. The host is Prof. Xinbo Gao.
- [T-103]. Xi'an Jiaotong University, Xi'an, Shanxi, China, December 30, 2011. The host is Prof. Jianru Xue.
- [T-104]. Baidu, December 29, 2011. The host is Dr. Fengyang Wang.
- [T-105]. Hefei University of Technology, Hefei, China, October 20, 2011. The host is Prof. Richang Hong and Prof. Meng Wang.
- [T-106]. Nanjing University of Science and Technology, Nanjing, October 15, 2011. The host is Prof. Jinghui Tang.
- [T-107]. Fuji-Xerox Palo Alto Laboratories (FXPAL), Palo Alto, CA, September 9, 2011. The host is Dr. Qiong Liu.
- [T-108]. **Invited Talk** at Google Research, Mountain View, CA, September 8, 2011. The host is Dr. Mei Han.
- [T-109]. National University of Singapore, July 13, 2011. The host is Prof. Tat-Seng Chua.
- [T-110]. Beijing University of Technology, July 28, 2011. The host is Prof. Baocai Yin.
- [T-111]. NEC China, Beijing, China, July 1, 2011. The host is Dr. Wei Zeng.
- [T-112]. **Invited Talk** at NEC Laboratories of America, May 1, 2011. The host is Dr. Kai Yu.
- [T-113]. Media Networking Lab, Huawei Core Networks, Bridgewater, NJ, April 5, 2011. The host is Dr. Zhu Li and Jun Tian.
- [T-114]. **Invited Talk** at US Patent Office, Washington, DC, April 4, 2011. The host is Dr. Marti A. Hearst.

- [T-115]. Institute of Computing Technology, Chinese Academy of Science, Beijing, China, March 17, 2011. The host is Dr. Xilin Chen and Dr. Shiguang Shan.
- [T-116]. Tsinghua University, Beijing, China, March 14, 2011. The host is Prof. Bo Zhang.
- [T-117]. **Invited Talk** at IBM T. J. Watson Research Ctr., November 19, 2010. The host is Dr. Lexing Xie and Dr. Apostol Natsev.
- [T-118]. **Invited Panelist**, “Connected Multimedia” at ACM Multimedia Workshop of Connected Multimedia, October 29, 2010, Florence, Italy.
- [T-119]. Beijing University, August 6, 2010. The host is Prof. Wen Gao and Prof. Yonghong Tian.
- [T-120]. Institute of Automation, Chinese Academy of Science, August 5, 2010. The host is Prof. Cheng-Lin Liu.
- [T-121]. Microsoft Research Asia, August 4, 2010. The hosts are Prof. Yi Ma and Dr. Shipeng Li.
- [T-122]. Nanyang Technological University, August 2, 2010. The hosts are Prof. Junsong Yuan.
- [T-123]. National University of Singapore, July 30, 2010. The hosts are Prof. Shuicheng Yan.
- [T-124]. “Content-based Image Retrieval,” Sino-USA Summer School on Vision, Learning, and Pattern Recognition (VLPR) at its industrial workshop: From Academia to Industry: a Comprehensive View of Computer Vision Research on July 25, 2010, Xi'an, China
- [T-125]. Xi'an Jiaotong University, July 22, 2010. The hosts are Prof. Guizhong liu.
- [T-126]. University of Electronic Science and Technology of China (UESTC), July 16, 2010. The hosts are Prof. Hongliang Li.
- [T-127]. **Invited Panelist**, “Data everywhere: challenges and opportunities of unlimited data for multimedia content understanding,” one of two panels in *2010 Visual Communication for Image Processing (VCIP)*, July 11-14, 2010, Huangshan, Anhui, China.
- [T-128]. 2010 International Workshop on Video Content Analysis for Education (VCAE) at Xidian University, July 8, 2010. The host is Prof. Xinbo Gao.
- [T-129]. HP Labs, Palo Alto, CA, June 11, 2010. The host is Dr. Tong Zhang.
- [T-130]. NEC Lab of America, Inc., June 11, 2010. The host is Dr. Kai Yu.
- [T-131]. Google Research, Mountain View, CA, June 10, 2010. The host is Dr. Mei Han.
- [T-132]. Akiira Media Systems, Inc., June 10, 2010. The host is Dr. Yihong Gong.
- [T-133]. Facebook, Palo Alto, CA, June 9, 2010. The host is Dr. Rong Yan.
- [T-134]. FXPAL, Palo Alto, CA, June 9, 2010. The host is Dr. Qiong Liu.
- [T-135]. University of Electronic Science and Technology of China (UESTC), January 4, 2010. The host is Prof. Hongbin Cai.
- [T-136]. Xidian University, December 30, 2009. The host is Prof. Xinbo Gao.
- [T-137]. Haerbin Institute of Technology, December 28, 2009. The host is Prof. Hongxun Yao.
- [T-138]. **Keynote speaker** of “Building Robust Visual Codebook” at *International Workshop on Large-scale Cross-Media Retrieval and Mining*, October 24, 2009, Hangzhou, China.
- [T-139]. Tsinghua University, October 22, 2009. The host is Prof. Changshui Zhang.
- [T-140]. **Keynote speaker** of "Internet-scale Image Retrieval and Mining: Position Statement" at *International Workshop on Frontiers of Multimedia Computing, October 18, 2009, Huangshan, Anhui, China.*

- [T-141]. University of Texas at Austin, September 10, 2009. The host is Prof. Kristen Grauman.
- [T-142]. Institute of Computing Technology, Chinese Academy of Science, August 19, 2009. The host is Dr. Xilin Chen.
- [T-143]. Institute of Computing Technology, Chinese Academy of Science, August 18, 2009. The host is Prof. Qionghai Dai.
- [T-144]. National University of Singapore, August 5, 2009. The host is Prof. Shuicheng Yan.
- [T-145]. Nanyang Technological University at Singapore, August 7, 2009. The host is Prof. Dong Xu.
- [T-146]. **Invited Panelist**, "What are the most exciting achievements in Multimedia for the past five years?" *IEEE International Conference on Multimedia and Expo (ICME)*, June 30-July 3, 2009, New York, NY, USA.
- [T-147]. University of Science and Technology of China (USTC), June 14, 2009. The host is Prof. Houqiang Li.
- [T-148]. Beijing University, June 2, 2009. The host is Prof. Hongbin Zha.
- [T-149]. Xidian University, Xi'an, China, December 18, 2008. The host is Prof. Xinbo Gao.
- [T-150]. Intel Research Labs, Santa Clara, CA, June 19, 2008. The host is Dr. Yi Wu.
- [T-151]. Google Research, Mountain View, CA, May 27, 2008. The host is Dr. Mei Han.
- [T-152]. NEC Labs of America, Inc. Cupertino, CA, May 23, 2008. The host is Dr. Yihong Gong.
- [T-153]. HP Labs, Palo Alto, CA, May 22, 2008. The host is Dr. Qian Lin.
- [T-154]. Microsoft Research, Redmond, WA, May 20, 2008. The host is Dr. Cha Zhang.
- [T-155]. Tsinghua University, Beijing, China, August 14, 2007. The host is Prof. Xiaoqing Ding.
- [T-156]. Chinese Academy of Science, August 9, 2007. The host is Dr. Qingming Huang.
- [T-157]. Google Beijing, China, August 8, 2007. The host is Dr. Dong Zhang.
- [T-158]. Web Search and Mining Group, Microsoft Research Asia (MSRA), July 26, 2007. The host is Dr. Lei Zhang.
- [T-159]. College of Computer Science, Zhejiang University, July 13, 2007. The host is Prof. Yueting Zhuang.
- [T-160]. Computer Vision Laboratory, Shanghai Jiaotong University, July 11, 2007. The host is Prof. Yuncai Liu.
- [T-161]. IEEE ICME'07 Workshop in Multimedia Communications and Computing, Hefei, Anhui, China, July 9-10, 2007.
- [T-162]. Institute of Automation, Chinese Academy of Science (CAS), Beijing, China, July 6, 2007. The host is Dr. Hanqing Lu.
- [T-163]. Microsoft Research Asia (MSRA), Beijing, China, May 17, 2005. The host is Dr. Weiying Ma.
- [T-164]. Invited Lectures on Biometrics, Multiple Classifiers and Content-Based Image Retrieval at Human-Computer Interaction (HCI) Workshop at Tsinghua University, Beijing, China, May 16-19, 2005. The host is Prof. Guangyou Xu.
- [T-165]. Sarnoff Corporation, Princeton, NJ, October 29, 2004. The host is Dr. Ying Shan.
- [T-166]. Image Formation and Processing (IFP) Group, Beckman Institute of Technology, University of Illinois at Urbana-Champaign, August 2004. The host is Prof. Thomas S. Huang.

- [T-167]. Image Formation and Processing (IFP) Group, Beckman Institute of Technology, University of Illinois at Urbana-Champaign, January 2004. The host is Prof. Thomas S. Huang.
- [T-168]. NEC Laboratories America, Inc., Cupertino, CA, August 2003. The host is Dr. Yihong Gong.
- [T-169]. HP Labs, Palo Alto, CA, August 2003. The host is Dr. Tong Zhang and Dr. Qian Lin.
- [T-170]. Cancer Therapy and Research Center, University of Texas Health Science Center, February 2003.
- [T-171]. Research Imaging Center, University of Texas Health Science Center, February 2003. The host is Prof. Charles R. Thomas.
- [T-172]. Image Formation and Processing (IFP) Group, Beckman Institute of Technology, University of Illinois at Urbana-Champaign, January 2003.
- [T-173]. Mitsubishi Electric Research Laboratories (MERL), Cambridge, MA, November 2001. The host is Dr. Baback Moghaddam.
- [T-174]. NEC Laboratories America, Inc., Cupertino, CA, January 2001. The host is Dr. Yihong Gong.

GRANTS

- [G-1]. **Principal Investigator**, Bliappr, Inc., Faculty Research Gift Grant to support our research in “deep learning for large scale image search” at UTSA, \$50,000, November 2015.
- [G-2]. **Principal Investigator**, “Student Participation Support at ACM Multimedia 2015”, \$30,000, IIS-1552998, National Science Foundation (NSF), September 1, 2015 – August 31, 2016.
- [G-3]. **Principal Investigator**, “Scalable Person Re-Identification: Lessons Learned from Image Search”, \$399,068, Army Research Office (ARO), W911NF-15-1-0290, September 1, 2015 – August 31, 2019.
- [G-4]. **Principal Investigator**, NEC Laboratories America, Inc. Faculty Research Gift Grant to support our research in “Large-scale Image Recognition” at UTSA, \$58,000, July 2015.
Note for NEC Gift Grants: NEC Laboratories America gives gift research grants to the leading experts and top professors in the US on annual basis. Previous gift grants were given to e.g., Prof. Thomas S. Huang in University of Illinois at Urbana-Champaign and Prof. Fei-Fei Li at Stanford University. UTSA is given the gift grants due to Dr. Tian's world-wide recognized research in Multimedia Content Analysis, especially in Large-Scale Image Search and its practical applications.
- [G-5]. **Principal Investigator**, NEC Laboratories America, Inc. Faculty Research Gift Grant to support our research in “Large-scale Image Search” at UTSA, \$58,000, May 2015.
- [G-6]. **Principal Investigator**, NEC Laboratories America, Inc. Faculty Research Gift Grant to support our research in “Multimedia Content Analysis” at UTSA, \$49,000, October 2013.
- [G-7]. **Principal Investigator**, NEC Laboratories America, Inc. Faculty Research Gift Grant to support our research in “Multimedia Content Analysis” at UTSA, \$50,000, July 2012.
- [G-8]. **Principal Investigator**, “Latent Fingerprint Matching for Large-Scale Identification,” STAR-R Research Award, UTSA, \$5000, 09/01/2012-08/31/2013.

- [G-9]. **Principal Investigator**, NEC Laboratories America, Inc. Faculty Research Gift Grant to support our research in “Large-scale Image Search” at UTSA, \$48,000, May 2012.
- [G-10]. **Co-Principal Investigator**, “Large-Scale Partial-Duplicate Image Retrieval and Its Applications,” UTSA Portion \$160,812 (sub-award from Texas State University, PI, Yijuan Lu, in total \$488,576), DoD Research and Educational Program for HBCU/MI grant W911NF-12-1-0057, 01/23/2012-01/22/2015.
- [G-11]. **Principal Investigator**, NEC Laboratories America, Inc. Faculty Research Gift Grant to support our research in “Large-Scale Image Search” at UTSA, \$30,000, June 2011.
- [G-12]. **Principal Investigator**, Fuji-Xerox Palo Alto Laboratory, Inc. (FXPAL) Faculty Research Gift Grant, \$15,000, February, 2011.
- Note:** FXPAL gives gift research grants to the leading expert and top professor in the US universities on annual basis depending on its budget. Previous gift grants were awarded to e.g., Cornell University and University of Maryland, College Park. UTSA is given the gift grant due to Dr. Tian's leading research in Multimedia Content Analysis, especially in Large-Scale Image Search and its practical applications.
- [G-13]. **Principal Investigator**, “Build Contextual Visual Vocabulary by Learning Discriminant Group Distance,” Google Faculty Research Award, \$30,000, December 2010.
- Note:** Google Faculty Research Award is an open competition (http://research.google.com/university/relations/research_awards.html). According to its 2012 funding round description, “Google Research Awards are one-year awards structured as unrestricted gifts to universities to support the work of world-class full-time faculty members at top universities around the world. Faculty members can apply for Research Awards by submitting a proposal to one of our two 2012 funding rounds. ”
- [G-14]. **Principal Investigator**, “3rd USA-Sino Summer School in Vision, Learning, Pattern Recognition, VLPR 2011,” \$50,000, NSF IIS 1137687, 05/01/2011-04/30/2012.
- [G-15]. **Principal Investigator**, “EAGER: Large Scale Partial-duplicate Image Search by Post Verification of Local Feature Matching,” \$81,666, NSF IIS 1052581, 09/01/2010-08/31/2011.
- [G-16]. **Principal Investigator**, Faculty Research Gift Grant of \$20,000 from Akiira Media Systems, Inc., June 2010.
- [G-17]. **Principal Investigator**, “Baby Face Crawler,” a gift grant of US \$ 1000 from Lab of Media Understanding, Hewlett-Packard Laboratories, Palo Alto, CA, February 2008.
- [G-18]. **Co-Principal Investigator**, Department of Homeland Security (DHS) Funded Establishing Research Center called Multi-modal Information Access and Synthesis Center (MIAS) (URL: <http://www.mias.uiuc.edu>). **PI:** Dan Roth (UIUC), **co-PIs** in alphabetic order: Kevin Chen-Chuan Chang (UIUC), Anhai Doan (UIUC), David Forsyth (UIUC), Jiawei Han (UIUC), Cinda Heeren (UIUC), William H. Hsu (Kansas State U.), Stephen Kwek (UTSA), Lenny Pitt (UIUC), Qi Tian (UTSA), Chengxiang Zhai (UIUC), DHS-ONR N0014-07-1-0151, in the amount of \$2.4 Million (Estimated UTSA portion for Dr. Tian: \$114,797), 12/01/2006-11/30/2009.
- [G-19]. **Principal Investigator**, “Self-Supervised Learning and Information Fusion for Multimodal Systems,” funded by Army Research Office (ARO), the 2005 Historically Black Colleges and

Universities and Minority Institutions (HBCU/MI) Program, W911NF-05-1-0404, in the amount of \$282,536, 08/01/2005-07/31/2008.

[G-20]. **Principal Investigator** at UTSA, with Feng Liu, PI at UTHSCSA, “Self-Supervised Learning for High Throughput Data,” funded by San Antonio Life Science Institute (SALSI), in the amount of \$118,157 for 09/01/2005-08/31/2007 (UTSA portion: \$85,657).

[G-21]. **Principal Investigator**, “Learning Semantic Content for Image Indexing,” Center for Infrastructure Assurance and Security (CIAS), UTSA, in the amount of \$77,285, 06/01/2004-09/30/2006.

[G-22]. **UTSA Faculty Research Award**, “Biometrics: A Killer Pattern Recognition Application,” in the amount of \$4,500, 01/01/2005-12/31/2005.

PROFESSIONAL SERVICE

Editorial Service

1. **Associate Editor (AE)** of IEEE Transactions on Neural Networks and Learning Systems (TNNLS), January 2019- December 2022.
2. **Associate Editor (AE)** of IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), January 2018 – December 2019. TCSVT is a premier journal in Circuits and System Society.
3. **Associate Editor (AE)** of ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), January 2016- present.
4. **Associate Editor (AE)** of IEEE Transactions on Multimedia (TMM), February 2014- 2020.
5. **Associate Editor (AE)** of Multimedia System Journal, Springer, January 2013 - present.
6. **Associate Editor (AE)** of IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), April 2010 – December 2015 TCSVT is a premier journal in Circuits and System Society.
7. **Editor** of Machine Vision and Application Journal (MVA), Springer, April 2011 - present.
8. **Editor** of Journal of Multimedia, 2006-present.
9. **Guest Editor** of *Special Issue on Pre-Trained Models for Multi-modality Understanding, IEEE Transactions on Multimedia*, Vol. 26: 8291-8296, 2024. The guest editors are Wengang Zhou (University of Science and Technology of China), Jiajun Deng(The University of Sydney, Australia), Niculae Sebe(University of Trento, Italy), **Qi Tian** (Huawei), Alan L. Yuille(Johns Hopkins University, USA), Concetto Spampinato(Università degli Studi di Catania), Zakia Hammal(Carnegie Mellon University).
10. **Guest Editor** of International Journal of Multimedia Information Retrieval (IJMIR), *Special Issue on Cross-modal Retrieval and Analysis*, Vol 11, pp: 523-524, 2022. <https://doi.org/10.1007/s13735-022-00265-2>. The guest editors are Jianlong Wu (Shandong University, China), Richang Hong (Hefei University of Technology, China), and **Qi Tian** (Huawei Cloud, China).
11. **Gust Editor** of Multimedia Systems Journal (MMSJ), *Special Issue on Multimedia Analysis with Collective Intelligence*, 2017-2018. The other guest editors are Meng Wang (Hefei

- University of Technology), Abdulmotaleb El Saddik(University of Ottawa), Mathias Lux(Klagenfurt University), and Yun Tie (Zhengzhou University).
12. **Guest Editor** of Journal of Visual Communication and Image Representation, *Special Issue on Intermediate Representation for Vision and Multimedia Applications*. Vol. 44, pp: 227-228, April 2017. The other guest editors are Yan Yan (University of Michigan, Ann Arbor), Yahong Han (Tianjin University), and Petia Radeva(Universitat de Barcelona),
 13. **Guest Editor** of IEEE Transactions on Multimedia, Special Issue on *Large-Scale Multimedia Data Retrieval, Classification, and Understanding*, 2016-2017. The other guest editors are Jingkuan Song(Columbia University, USA), Cees Snoek(University of Amsterdam, Netherlands), Herve Jegou(Facebook, France/USA), and Nicu Sebe(University of Trento, Italy).
 14. **Guest Editor** of Computer Vision and Image Understanding, Special Issue on *Large Scale Multimedia Semantic Indexing*, 2013-2014. The other guest editors are Yadong Mu (Columbia University), Yi Yang (Carnegie Mellon University), Liangliang Cao (IBM T.J. Watson Research Lab), Shuicheng Yan (National University of Singapore).
 15. **Guest Editor** of Multimedia Systems Journal (MMSJ), Special Issue on *When Social Media Meets Psychological World*, 22(4):393-394, 2016. The other guest editors are Rongrong Ji (Xiamen University), Yue Gao (National University of Singapore), Qionghai Dai (Tsinghua University), Ralf Steinmetz (Technische Universität Darmstadt).
 16. **Guest Editor** of Journal of Machine Vision and Application (MVA), Special Issue on *Contextual Vision Computing*, 2013. The other guest editors are Richang Hong (Hefei University of Technology, China) and Nicu Sebe (University of Trento).
 17. **Guest Editor** of Multimedia Tools and Applications (MTAP) -Springer, Special Issue on *Large-Scale Multimedia Content Analysis on Social Media*, 75(3): 1365-1369, 2016. The other guest editors are Haojie Li (Dalian University of Technology), Zhengjun Zha (Institute of Intelligent Machines, CAS), Benoit Huet (Institut Eurecom, France).
 18. **Guest Editor** of Journal of Visual Communication and Image Representation, Special Issue on *Sparse Representations for Image and Video Analysis*, Vol. 24, Issue 2, February, 2013. The other guest editors are Jinghui Tang (NJUST), Shuicheng Yan (NUS), John Wright (Columbia University), Tanwei Pang (Tianjin University), Edwige Pissaloux (Université Pierre et Marie Curie, France).
 19. **Lead Guest Editor** of IEEE Transactions on Multimedia, Special Issue on *Learning Semantics from Multimedia Web Resources*, Vol. 14, No. 4, pp:949-950, August 2012. The other guest editors are Jinhui Tang (NUS), Marcel Worring (University of Netherlands), Daniel Gatica-Perez (IDIAP Research Institute).
 20. **Guest Editor** of Journal of Pattern Recognition Letter, Special Issue on *Intelligent Multimedia Interactivity*. The other guest editors are Ling Shao (The University of Sheffield), Alberto Del Bimbo (The University of Florence), and Changsheng Xu (Chinese Academy of Science, China). Volume 33, Issue 4, pp. 371-372. March, 2012, Elsevier Science Inc. New York, NY, USA.

21. **Guest Editor** of ACM Traction Intelligent Systems and Technology (ACM TIST) Special Issue on *Intelligent Multimedia Systems and Technology*, Part II, 3(3):39, 2012. Other co-editors are Xian-Sheng Hua, Ramesh Jain, and Albert Del Bimbo.
22. **Guest Editor** of IEEE Transactions on Multimedia (T-MM) Special Issue on *Integration of Context and Content for Multimedia Management*, Vol. 11, No. 2, pp:193-195, 2009. Other co-editors are Alan Hanjalic, Alejandro Jaimes, and Jiebo Luo.
23. **Guest Editor** of EURASIP Journal on Advances in Signal Processing, Special Issue on *Signal Processing for Applications in Healthcare Systems*, Publication date: June 1, 2008. <http://www.hindawi.com/journals/asp/si/ahs.html>. Other co-editors: P.-C. Chung, Chein-I Chang, Chien-Cheng Lee.
24. **Guest Editor** of Journal of Computer Vision and Image Understanding (CVIU) Special Issue on *Similarity Matching in Computer Vision and Multimedia*, November 2006. URL: http://www.cs.utsa.edu/~qitian/cfp_cviu.htm. Other co-editors are Nicu Sebe, Michael Lew, and Thomas S. Huang.

Conference Chair or Conference Organizer

1. **Area Chair**, Lead AC, ICCV 2025, October 19-25, 2025, Honolulu, Hawaii, United States.
2. **Area Chair**, CVPR 2025, June 10-15, 2025, Nashville, TN, United States.
3. **Frontiers of Science Award Selection Committee** for the section 303-Mathematical Modeling and Simulation (Climate and Environmental Research), the 2025 International Congress of Basic Science (ICBS).
4. **Nature Reviewer**, 2024.
5. **Industry Liaison Chair**, IEEE International Conference on Multimedia and Expo, July 15-19, 2024, Niagra Falls, Canada.
6. **Area Chair**, ACM Multimedia, October 29-November 3, 2023, Ottawa, Canada.
7. **Area Chair**, ICCV 2023, October 2-6, 2023, Paris, France.
8. **Area Chair**, CVPR 2022, June 19-23, 2022, New Orleans, Louisiana, United States.
9. **Area Chair**, ACM Multimedia, October 10-14, 2022, Lisbon, Portugal.
10. **Industry and Practitioners Chairs**, ACM ICMR 2022, June 27-30, 2022, Newark, NJ, USA.
11. ChinaMM 2022 华为论坛多模态预训练和识别 Workshop 组织者, 2022 年 7 月 20-23 日
12. **Area Chair**, ACM Multimedia 2021, Chengdu, China, October 20-24, 2021.
13. **Best Paper Award Committee**, MM-Asia, 2021.
14. **Area Chair**, ACM Multimedia 2020, Seattle, WA, USA, October 12-16, 2020.
15. **General Chair**, ACM Multimedia Asia (MM Asia), Singapore, December 16-18, 2020.
16. **Sponsorship Chair**, ACM Multimedia 2019, Nice, France, October 21-25, 2019.
17. **MMSP TC Award Subcommittee Chair**, 2018.
18. **CAS VSPC TC Committee Chair**, 2018-2020.
19. **SIGMM Executive Committee Member-at-large**, July 1, 2019- June 30, 2022
20. **Area Chair**, ACM Multimedia, Seoul, Korea, October 22-26, 2018.

21. **Publicity Chair**, the IEEE International Conference on Multimedia Big Data, Xi'an, China, September 13-16, 2018.
22. **Area Chair**, International Conference on Pattern Recognition (ICPR), Beijing, China, August 20-24, 2018.
23. **Area Chair**, IEEE International Conference on Multimedia and Expo (ICME), San Diego, CA, USA, July 23-27, 2018.
24. **Panel Chair**, IEEE International Conference on Multimedia and Expo (ICME), San Diego, CA, USA, July 23-27, 2018.
25. **Technical Program Chair**, ACM International Conference on Multimedia Retrieval (ICMR), Yokohama, Japan, June 11-14, 2018.
26. **Track Chair**, the 2018 IEEE International Symposium on Circuits and Systems (ISCAS), Florence, Italy, May 27-30, 2018.
27. **Tutorial Chair**, IEEE International Conference on Visual Communications and Image Processing (VCIP), December 10, 2017, Orlando, USA.
28. **Area Chair**, 2017 International Conference on Computer Vision (ICCV), Venice, Italy, October 22-29, 2017.
29. **First International ACM Thematic Workshop Chair**, ACM Multimedia, Mountain View, CA, October 23-26, 2017.
30. **Area Chair**, ACM Multimedia, "Multimedia in Data Sciences", Silicon Valley, California, USA October 14 – 18, 2017.
31. **Exhibits/Demo Chair**, IEEE International Conference on Image Processing (ICIP), Beijing, China, September 17-20, 2017.
32. **Area Chair**, 2017 IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), July 2017.
33. **Track Chair**, the 2017 IEEE International Symposium on Circuits and Systems (ISCAS), Baltimore, MD, USA, May 28-31, 2017.
34. **University Student Branch Liaison-San Antonio** (Appointment confirmed 6 April 2016), IEEE-CTS.
35. **Chair** of Visual Signal Processing & Communication Technical Committee (VSPC-TC), IEEE Circuits and Systems Society (CASS), 2018-2020.
36. **Secretary** of Visual Signal Processing & Communication Technical Committee (VSPC-TC), IEEE Circuits and Systems Society (CASS), 09/2016-08/2018.
37. **Area Chair**, The Thirty-first Annual Conference on Neural Information Processing Systems (NIPS), December 4-9, 2017, Long Beach, CA.
38. **Area Chair**, IEEE International Conference on Visual Communications and Image Processing (VCIP), November 27-30, 2016, Chengdu, China.
39. **Area Chair**, the ACM Multimedia, Amsterdam, the Netherlands, October 16-19, 2016.
40. **Area Chair**, the 14th European Conference on Computer Vision (ECCV), Amsterdam, the Netherlands, October 8-16, 2016.

41. **Area Chair**, the 23rd International Conference on Pattern Recognition (ICPR), Cancun, Mexico, December, 2016
42. **Best Paper Committee**, IEEE International Conference on Visual Communications and Image Processing (VCIP), November 27-30, 2016, Chengdu, China.
43. **Best Paper Committee**, IEEE International Conference on Multimedia and Expo (ICME), Seattle, WA, USA, July 11-14, 2016.
44. **Technical Program Chair**, the 2016 Pacific-rim Conference on Multimedia (PCM), September 15-16, 2016, Xi'an, China.
45. **General Chair**, International Conference on Multimedia Modeling (MMM), Miami, FL, January 4-6, 2016.
46. **General Chair**, ACM Multimedia 2015, Brisbane, Australia.
47. **Best Paper Committee Chair**, ACM Multimedia 2015, Brisbane, Australia.
48. **Session Chair**, IEEE International Conference on Multimedia and Expo (ICME 2015), Session titled "Understanding from Visual Data," June 30, 2015, Torino, Italy.
49. **Session Chair**, ACM International Conference on Multimedia Retrieval (ICMR), Session titled "Image Retrieval", June 24, 2015, Shanghai, China.
50. **Session Chair**, IEEE International Conference on Circuits and Systems (ISCAS), Session titled "", May 28, 2015, Lisbon, Portugal.
51. **Publicity Chair and TC Member**, Visual Signal Processing & Communication Technical Committee (VSPC-TC), IEEE Circuits and Systems Society (CASS), 2015.
52. **TC Member**, Multimedia Systems & Applications Technical Committee (MSA-TC), IEEE Circuits and Systems Society (CASS), September 1, 2015-August 31, 2019.
53. **Chair of Education Subcommittee**, Multimedia Signal Processing Technical Committee (MMSP-TC), IEEE Circuits and Systems Society (CASS)
54. **Track Chair**, the 3rd IEEE China Summit & International Conference on Signal and Information Processing (ChinaSIP), July 12-15, 2015, Chengdu, China.
55. **Area Chair**, IEEE International Conference on Image Processing (ICIP), September 27-30, 2015, Quebec City, Canada.
56. **Area Chair**, Multimedia Search and Retrieval, IEEE International Conference on Multimedia and Expo (ICME), June 29-July 3, 2015, Torino, Italy.
57. **Workshop Chair**, ACM International Conference on Multimedia Retrieval (ICMR), Shanghai, June 23-26, 2015.
58. **Area Chair**, Multimedia Database and Information Retrieval, IEEE International Conference on Multimedia (ISM), Taichun, Taiwan, December 10-12, 2014.
59. **Area Chair**, Multimedia Search and Recommendation, ACM Multimedia 2014, Orlando, FL, November 3-7, 2014.
60. **Member**, Multimedia Signal Processing Technical Committee (MMSP-TC), IEEE Circuits and Systems Society (CASS), (2013-2014).
61. **Best Poster Committee**, ACM Multimedia 2014, Orlando, FL.
62. **Best Paper Committee Co-Chair**, IEEE Transactions on Multimedia (TMM), 2014.

63. **Area Chair**, IEEE International Conference on Image Processing (ICIP), Paris, France, 2014.
64. **Workshop Chair**, IEEE International Conference on Multimedia and Expo (ICME 2014), Chengdu, China, 2014.
65. **Proceedings Chair**, ACM Multimedia 2013, Barcelona, Spain.
66. **ACM International Conference on Multimedia Retrieval (ICMR) Steering Committee Member**, 2009-2014.
67. **Panel Chair**, Pacific-rim Conference on Multimedia, December 13-16, 2013, Nanjing China.
68. **Area Chair** for IEEE International Conference on Image Processing (ICIP), Melbourne, Australia, 2013.
69. **Best Paper Committee**, The 5th International Conference on Internet Multimedia Computing and Service (ICIMCS 2013), August 17-18, 2013, Huangshan, China.
70. **Special Session Chair**, ACM International Conference on Multimedia Retrieval (ICMR), Dallas, April 16-19, 2013.
71. **Best Paper Committee Member**, The 2012 Pacific-Rim Conference on Multimedia (PCM), December 4-6, 2012, Nanyang Technological University, Singapore.
72. **Technical Demonstration Chair**, ACM Multimedia, October 29-November 2, 2012, Nara, Japan.
73. **Area Chair** of Multimedia Search and Retrieval, ACM Multimedia 2012, October 29-November 2, 2012, Nara, Japan.
74. **Track Chair** of Multimedia Applications, Interface and Interactions, International Conference on Multimedia and Expo, July 9-13, 2012, Melbourne, Australia.
75. **Area Chair** of Media Analysis and Search, ACM Multimedia 2011, November 28-December 1, 2011, Scottsdale, AZ.
76. **Director**, 2011 US-China Vision, Learning, and Pattern Recognition (VLPR) Summer School, July 16-23, 2011, Chengdu, China. Other co-directors are Yi Ma (MSRA) and Shuilin Tian (UESTC).
77. **Best Paper Award Committee Co-Chair**, IEEE International Symposium on Multimedia (ISM 2011), Dana Point, CA, December 5-7, 2011.
78. **Panel Organizer** for the panel titled “The Use of Non-conventional Means for Media Content Analysis and Understanding,” in *ACM Multimedia 2010*, Florence, Italy, October 24-29, 2010. Co-organized with Nicu Sebe, from University of Trento, Italy.
79. **Industrial Exhibits Chair**, *ACM Multimedia 2010*, October 25-29, 2010, Firenze, Italy.
80. **Program Chair**, *International Workshop of Analysis and Evaluation of Large-Scale Multimedia Collections*, in conjunction with *20th International Conference on Pattern Recognition (ICPR 2010)*, August 23-26, 2010, Istanbul, Turkey.
81. **Panelist**, “Data everywhere: challenges and opportunities of unlimited data for multimedia content understanding,” *2010 IEEE Visual Communication for Image Processing (VCIP)*, July 11-14, 2010, Huangshan, Anhui, China. Panel organizers: Dong Xu, NTU and Lei Zhang from MSRA. Other panelists including Ling Guan (Ryerson University), Ling Shao (University of Sheffield), Weisi Lin (Nanyang Technological University), and Shipeng Li (MSRA).

82. **Program Chair**, *ACM International Conference on Image and Video Retrieval (CIVR 2010)*, July 2010, Xi'an, China.
83. **Program Chair**, *The 16th International Multimedia Modeling Conference (MMM 2010)*, January 2010, Chongqing, China.
84. **Panel and Tutorial Chair**, *Visual Communication and Image Processing (VCIP)*, July 11-14, 2010, Huangshan, Anhui, China.
85. **Program Chair**, *The 1st ACM International Conference on Internet Multimedia Computing and Services (ICIMCS)*, November 23-25, 2009, Kunming, Yunnan, China.
86. **Program Chair**, *ACM Multimedia Workshop on Large-Scale Multimedia Retrieval and Mining (LSMMRM)*, October 23, 2009, Beijing, China.
87. **Program Coordinator**, *ACM Multimedia 2009*, October 19-24, 2009, Beijing, China.
88. **Panelist**, "What are the most exciting achievements in Multimedia for the past five years?" *IEEE International Conference on Multimedia and Expo (ICME 2009)*, June 30-July 3, 2009, New York, NY, USA.
89. **Panel Organizer** for the panel titled "Multimedia Content Analysis: Model-based Approaches vs. Data-driven Approaches", one of two panels in *ACM Multimedia (MM09)*, October 22, 2009, Beijing, China. Co-organized with Dr. Lei Zhang from Microsoft Research Asia (MSRA), and panelists are Dr. Edward Chang (Google China), Prof. Bo Zhang (Tsinghua University), Dr. Wei-Ying Ma (MSRA), Dr. John Smith (IBM), and Prof. Mor Naaman (Rutgers University).
90. **Track Chair**, *IEEE International Conference on Multimedia and Expo (ICME)*, June 28-July 3, 2009, New York, NY.
91. **General Chair**, *Asia-Pacific Workshops on Visual Information Processing (VIP 2008)*, December 8-9, 2008, Southern Taiwan University of Technology, Tainan, Taiwan.
92. **Track Chair**, *IEEE International Conference on Multimedia and Expo (ICME)*, June 23-26, 2008, Hannover, Germany.
93. **Publicity Chair**, *Pacific-rim Conference on Multimedia*, December 9-12, 2008, National Cheng Kung University, Tainan, Taiwan.
94. **Special Session Chair**, *ACM International Conference on Image and Video Retrieval (CIVR'08)*, July 7-9, 2008, Niagara Falls, Canada.
95. **Program Chair**, *Asia-Pacific Workshops on Visual Information Processing (VIP 2007)*, December 15-17, 2007, National Cheng Kung University, Tainan City, Taiwan, R.O.C.
96. **Program Chair**, *Fifth International Conference on Intelligent Multimedia and Ambient Intelligence*, July 15-22, 2007, Salt Lake City, Utah, USA.
97. **Special Session Chair**, *2007 Pacific-Rim Conference on Multimedia (PCM 2007)*, December 11-14, 2007, Hong Kong, 2007.
98. **Publicity Chair**, *ACM International Conference on Image and Video Retrieval (CIVR 2007)*, July 9-11, 2007, Amsterdam, The Netherlands, 2007.
99. **Publicity Chair**, *ACM Multimedia*, October 22-28, 2006, Santa Barbara, CA.
100. **Track Chair of Multimedia Content Analysis**, *IEEE International Conference on Multimedia and Expo (ICME 2006)*, July 9-12, 2006, Toronto, Canada.

101. **Best Paper Committee Member**, The 16th International Multimedia Modeling Conference (MMM), January 6-8, 2010, Chongqing, China.
102. **Best Paper Committee Member**, ACM Multimedia, Beijing Oct. 19-23, 2009, Beijing, China.
103. **Best Paper Committee Member**, IEEE International Conference on Multimedia and Expo (ICME 2009), June 30-July 4, 2009, New York, NY.
104. **Best Paper Committee Member**, IEEE International Conference on Multimedia and Expo (ICME 2006), July 9-12, 2006, Toronto, Canada.
105. **Program Chair**, Multimedia Systems and Applications IX, SPIE's International Symposium on Optics East 2006, October 1-4, 2006, Boston, MA.
106. **Program Chair**, The 7th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2005), in conjunction with the ACM Multimedia 2005, November 11-12, 2005, Singapore.
107. **Program Chair**, Internet Multimedia Management Systems, OpticsEast, SPIE, October, 2005, Boston, MA. Co-chaired with Dr. John Smith, IBM T. J. Watson Research Center, and Dr. Tong Zhang, Hewlett-Packard Lab, Palo Alto, CA.
108. **International Steering Committee Member**, ACM Multimedia Information Retrieval Workshop, 2006-2010.

Session Chair (incomplete list since 2016)

1. 2016 ACM Multimedia, Session on Topics in Multimedia IV, October 19, 2016, Amsterdam, the Netherlands.
2. 2014 ACM Multimedia, Session on Multimedia Search and Indexing, November 6, 2014, Orlando, FL.
3. The 5th International Conference on Internet Multimedia Computing and Service (ICIMCS 2013), Session on Social Multimedia, August 18, Huangshan, China.
4. The 19th International Conference on Multimedia Modeling (MMM), Session on Multimedia Annotation, January 7, 2013, Huangshan, China.
5. 2012 ACM Multimedia, Session on Visual Search, October 31, Nara, Japan.
6. 2011 ACM Multimedia, Session on Media Analysis and Search (Research 7), November 30, 2011, Scottsdale, AZ.
7. 2011 International Workshop on Multimedia Signal Processing (MMSP), Session on Cloud-client and Large-scale Computing, October 17, 2011, Hangzhou, China.
8. 2010 ACM Multimedia, Session on Applications, October 27, 2010, Florence, Italy.
9. 2010 ACM Multimedia, Session on Industrial Exhibit, October 28, 2010, Florence, Italy.
10. 2010 ACM International Conference on Image and Video Retrieval (CIVR), keynote speech titled "Towards Web-Scale Media Content Analysis and Retrieval - What has University Research Contributed to Commercial Systems and Social Network Services," by Tat-Seng Chua, NUS, Singapore.

11. 2010 ACM International Conference on Image and Video Retrieval (CIVR), keynote speech titled “What Can Billions of Queries Tell Us About Image Search? A Human-Centered Perspective,” by Alejandro Jaimes, Yahoo! Research, Spain.
12. ACM Multimedia, Session Chair of Image Retrieval, October 19-23, 2009, Beijing, China.
13. ACM International Workshop on Large-Scale Multimedia Retrieval and Mining, October 23, 2009, Beijing, China.
14. IEEE International Conference on Multimedia and Expo (ICME), Special Session Chair of Large-Scale Image Retrieval, June 28-July 3, 2009, New York, NY.
15. ACM Multimedia, Session Chair of Image Retrieval, October 30, 2008, Vancouver, Canada.
16. Pacific-Rim Conference on Multimedia (PCM), Session Chair of Image Classification and Retrieval, December 11-14, 2007, City University of Hong Kong, Hong Kong.
17. 9th ACM SIGMM International Workshop on Multimedia Information Retrieval, Session on “Personalized Multimedia Information Retrieval,” in conjunction with ACM Multimedia 2007, September 28-29, 2007, University of Augsburg, Germany.
18. IEEE International Conference on Multimedia and Expo (ICME 2007), Special Session on “Mobile Media”, July 2-5, 2007, Beijing, China.
19. IEEE International Conference on Multimedia and Expo (ICME 2007), Session on “Multimedia Tools, Applications, and Hypermedia Technologies (III),” July 5, 2007, Beijing, China.
20. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2007), Session on “Video Coding,” April 18, 2007, Honolulu, Hawaii.
21. ACM Multimedia, October 23-26, 2006. “Applications - Searching Media,” Wednesday, October 25, 2006, Santa Barbara, CA.
22. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006), IMDSP-P15 “Image Restoration and Denoising,” May 19, 2006.
23. IEEE International Conference on Multimedia and Expo (ICME 2006), Special Session on “Interactive Multimedia Content Analysis and Applications,” July 9-12, 2006, Toronto, Canada.
24. The 7th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2005), “Video Annotation, Indexing and Retrieval” and “Image/WWW-based System and Applications,” November 10-11, 2005, Singapore, in conjunction with ACM Multimedia 2005.
25. SPIE’s Optics East 2005, Multimedia Systems and Applications VIII (Conference 6015), “Content-Based Image/Video Retrieval”, October 23-26, 2005, Boston, MA.
26. Visual Communications and Image Processing (VCIP2005), Special Session on “Media Processing for Digital Entertainment,” Beijing, China, July 12-15, 2005.
27. Visual Communications and Image Processing (VCIP 2005), “Image Content Analysis,” Beijing, China, July 12-15, 2005.

28. Internet Multimedia Management Systems V, OpticsEast, SPIE, “Adaptation and Mining,” October 26-28, 2004, Philadelphia, PA.

Technical Program Committee Member

Dr. Tian has actively served as a TPC member for numerous IEEE and ACM conferences including ACM SIGMM, ACM SIGIR, ICCV, ACM SIGKDD, ICIP, ICASSP, ICME, CIVR, MIR, ISCAS, VCIP, MMM, ICPR, etc.

Partial list TPC since 2009

1. Program Committee for the ACM International Conference on Multimedia Retrieval (ICMR-23) Regular Short Papers Track.
2. IEEE International Conference on Multimedia and Expo (ICME), July 23-27, 2018, San Diego, USA.
3. The 43rd IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018), April 15-20, 2018, Calgary, Alberta, Canada.
4. IEEE VCIP 2017, December 10-13, 2017, St Petersburg, FL, USA.
5. IEEE International Conference on Image Processing (ICIP), September 17-20, Beijing, China.
6. BMVC 2017, September 4-7, 2017, Imperial College London.
7. The 40th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), short paper, August 7-11, 2017, Tokyo, Japan.
8. IEEE International Conference on Multimedia and Expo (ICME), July 10-14, 2017, Hong Kong.
9. ACM International Conference on Multimedia Retrieval (ICMR), June 6-9, 2017, Bucharest, Romania.
10. The 42nd IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2017), March 5-9, 2017, New Orleans, USA.
11. ACM International Conference on Multimedia Retrieval (ICMR), June 6-9, 2017, Bucharest, Romania.
12. Asian Conference on Computer Vision (ACCV), November 20-24, 2016, Taipei, Taiwan.
13. ACM SIGIR 2016, short paper track, July 17-21, 2016, Pisa, Tuscany, Italy.
14. ACM International Conference on Multimedia Retrieval (ICMR), June 6-9, 2017, New York, USA.
15. IEEE International Symposium on Circuits and Systems (ISCAS), May 24-27, 2015, Lisbon, Portugal.
16. The 8th International Conference on Image and Graphics (ICIG2015), August 13-16, 2015, Tianjin, China.
17. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), April 19-24, 2015, Brisbane, Queensland, Australia.

18. The 37th Annual International ACM SIGIR Conference, Queensland, Australia, July 6-11, 2014.
19. 2014 International Conference on Image Processing, Paris, France, October 27-30, 2014.
20. 2014 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Florence, Italy, May 4-9, 2014.
21. 2014 ACM International Conference on Multimedia Retrieval (ICMR), Glasgow, April 1-4, 2014.
22. 2014 ACM International Conference on Internet Multimedia Computing and Services (ICIMCS), July. 10-12, 2014, Xiamen, China.
23. The 36th Annual ACM SIGIR Conference, Dublin, Ireland, Long Paper and Short Paper, July 28- August 1, 2013,
24. The Third IEEE International Workshop on Mobile Vision in conjunction with CVPR'2013.
25. The 9th International Conference on Computer Vision Systems (ICVS 2013), St. Petersburg, Russia, July 16-18, 2013.
26. The 19th International Conference on Multimedia Modeling, January 7-9, 2013, Huangshan, China.
27. The 2012 Pacific-rim Conference on Multimedia, December 4-7, 2012, Singapore.
28. The 35th ACM International Conference on Research and Development in Information Retrieval (SIGIR2012), Portland, Oregon, USA, Aug. 12-16, 2012.
29. The 6th International Conference on Multimedia and Ubiquitous Engineering (MUE 2012), Leganes, Madrid, July 10-13, 2012.
30. The 4th International Conference on Internet Multimedia Computing and Service, September 9-11, 2012, Wuhan, China.
31. ACM International Conference on Multimedia Retrieval, Hong Kong, Jun 5-8, 2012.
32. Second IEEE International Workshop on Mobile Vision (IWMV), 2011, in conjunction with IEEE CVPR 2011, Colorado, US.
33. IEEE International Conference on Image Processing, September 11-14, 2011, Brussels, Belgium.
34. ACM SIGIR Poster Track, 2011.
35. IEEE International Conference on Multimedia and Expo (ICME), July 11-15, 2011, Barcelona, Spain,
36. ACM Multimedia, Content Track, 2010.
37. Meta-reviewer for the 12th International Conference on Multimodal Interfaces and 7th Workshop on Machine Learning for Multimodal Interaction, November 8-12, 2010, Beijing, China.
38. Multimedia Data Mining Workshop in conjunction with ACM SIGKDD conference, July 25, 2010, Washington, DC.

39. The First ACM International Workshop on Connected Multimedia In conjunction with ACM MM 2010: ACM International Conference on Multimedia, October, 2010, Florence, Italy.
40. Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval, in conjunction with ACM Multimedia, October 29, 2010, Firenze, Italy.
41. Tenth International Workshop on Multimedia Data Mining, in conjunction with KDD 2010 Conference, July 25-28, 2010, Washington, DC.
42. ACM SIGIR, July 19-23, 2010, Geneva, Switzerland.
43. Visual Communications and Image Processing, July 11-14, 2010, Huang Shan, An Hui, China.
44. ACM SIGIR, July 19-23, 2009, Boston, MA.
45. The 20th IEEE International Conference on Computer Vision, September 27-October 4, 2009.
46. The 4th International Workshop on Semantic Learning (SLAM), June 21st, 2009, Miami beach, FL.
47. IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS), May 17-21, 2009, Minneapolis, Minnesota.
48. The First IEEE International Workshop on Multimedia Computing and Communications (MCC'09), August 2-6, 2009, in conjunction with IEEE International Conference on Computer Communications and Networks (ICCCN), 2009.
49. The 10th International Workshop on Image Analysis for Multimedia Interactive Systems (WIAMIS), May 6-8, 2009, London, U.K.
50. ACM Multimedia, Multimedia Content Analysis, Processing, Retrieval Track, October 7-November 1, 2008, Vancouver, BC, Canada.
51. IEEE International Conference on Multimedia and Expo (ICME 2008), June 23-26, 2008, Hannover, Germany.
52. 1st International Workshop on: Robust Multimedia Learning in Broad Domains, October 31, 2008, Vancouver, BC, Canada.
53. ACM International Conference on Multimedia Information Retrieval (MIR), October 30-31, 2008, Vancouver, Canada.
54. First International Workshop on Video Mining (VM'08), in association with ICDM 2008, Pisa, Italy, December 15, 2008.
55. 3rd International Workshop on Semantic Learning and Applications in Multimedia (SLAM), CVPR Workshop, June 27, 2008, Anchorage, Alaska, USA.
56. 2008 ICPR Workshop on Media Processing on Mobile/Portable Applications, December 8-11, 2008, Tampa, FL, USA.
57. 3rd International Conference on Computer Vision Theory and Applications (VISAPP), January 22-25, 2008, Funchal, Madeira, Portugal.

58. The 10th IASTED International Conference on Signal and Image Processing (SIP 2008), August 18-20, 2008, Kailua-Kona, Hawaii, USA.
59. International Conference on Signal Processing and Multimedia Applications (SIGMAP 2008), July 26-29, 2008, Porto, Portugal.
60. IS&T/SPIE's 20th Annual Symposium Electronic Imaging, Multimedia Content Access: Algorithms and Systems II, January 27-31, 2008, San Jose, California, USA.
61. IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS), June 8-10, 2008, Phoenix, Arizona, USA.
62. ACM Multimedia, September 23-29, 2007 University of Augsburg, Augsburg, Germany.
63. IEEE International Conference on Multimedia and Expo (ICME 2007), July 2-5, 2007, Beijing, China.
64. ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2007), in conjunction with the ACM Multimedia 2007 in Augsburg, Germany, September 2007.
65. 2nd International Workshop on Human-Centered Multimedia (HCM 2007), September 28, 2007, Augsburg, Germany, in conjunction with the ACM Multimedia.
66. First IEEE International Conference on Semantic Computing (ICSC07), September 17-19, 2007, Irvine, California, USA.
67. 2007 IEEE International Workshop on Semantic Learning Applications in Multimedia (SLAM 2007, in association with IEEE CVPR 2007, Minneapolis, MN, USA, June 18, 2007.
68. IEEE International Workshop on Human Computer Interaction (HCI), October 21, 2007, Rio de Janeiro, Brazil, in conjunction with ICCV 2007.
69. International Workshop on Multimedia Content Analysis and Mining (MCAM 2007), June 31-July 1st, 2007, Weihai, Shandong, China.
70. Multimedia Systems and Applications X (IT 405), SPIE International Symposium on Optics East 2007, September 9-12, 2007, Boston, MA, USA.
71. The 9th International Conference on Visual Information Systems (VIUSAL 2007), June 28-29, 2007, Shanghai, China.
72. The 2007 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB 2007), Honolulu, Hawaii, USA, April 1-5, 2007.
73. Multimedia Content Access: Algorithms and Systems, Electronic Imaging, SPIE/IS&T conference, San Jose, January 2007.
74. 2nd International Conference on Computer Vision Theory and Applications (VISAPP 2007), March 8-11, 2007, Barcelona, Spain.
75. The 2007 Information Resources Management Association (IRMA) International Conference, May 19-23, 2007, Vancouver, British Columbia, Canada.
76. The IASTED International Conference on Signal and Image Processing, SIP 2007, Honolulu, USA, August 20 - 22, 2007.

77. SIGMAP 2007 International Conference on Signal Processing and Multimedia Applications, Barcelona, Spain, July 28-31, 2006.
78. The First Workshop on Human-Centered Multimedia (HCM), in conjunction with ACM Multimedia (ACM MM), October, 2006, Santa Barbara, CA.
79. The 8th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2006), in conjunction with ACM Multimedia 2006, October 2006, Santa Barbara, CA.
80. IEEE International Conference on Multimedia and Expo (ICME 2006), July 9-12, 2006, Toronto, Canada.
81. IEEE CVPR Workshop on Semantic Learning Applications in Multimedia, June 18, 2006, in association with IEEE CVPR 2006, New York City.
82. The 1st International Workshop on Mobile Information Retrieval (MoMIR), in conjunction with 4th International Conference on Mobile Computing and Multimedia (MoMM2006), December 7, 2006, Yogyakarta, Indonesia.
83. Asia-Pacific Workshop on Visual Information Processing (VIP 2006), Nov. 7-9, 2006, Beijing, China.
84. The 5th International Conference on Image and Video Retrieval (CIVR 2006), Arizona State University, July 2006.
85. International Workshop on Human-Computer Interaction (HCI 2006), May 13, 2006, Graz, Austria, in conjunction with ECCV 2006.
86. 2006 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), August 27-30, 2006, Vancouver, Canada.
87. The International Conference on Signal Processing and Multimedia Applications (SIGMAP), August 2006, Setubal, Portugal.
88. International Conference on Computer Vision Theory and Applications (VISAPP 2006), February 22-25, 2006, Setúbal, Portugal.
89. Multimedia Content Analysis, Management and Retrieval 2006, Electronic Imaging, San Jose, CA, January 2006.
90. The IASTED International Conference on Signal Processing (SIP 2006), Honolulu, USA, August 14-16, 2006.
91. The IEEE International Workshop on Human Computer Interaction 2005 (HCI 2005), in conjunction with IEEE International Conference on Computer Vision, October 15-21, 2005, Beijing, China.
92. Short Paper Technical Committee for the Application Track of ACM Multimedia, November 6-12, 2005, Singapore.
93. International Conference on Image and Video Retrieval (CIVR 2005), July 20-22, 2005, National University of Singapore, Singapore.
94. The IEEE International Conference on Multimedia and Expo (ICME 2005), July 6-8, 2005, Amsterdam, The Netherlands.

95. The Seventh IASTED International Conference on Signal and Image Processing (SIP 2005), August 15-17, 2005, Honolulu, Hawaii, USA.
96. 6th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2004), in conjunction with the ACM Multimedia 2004, October 15, 2004, New York City, NY, USA.
97. International Workshop on Multidisciplinary Image, Video, and Audio Retrieval and Mining, October 25-26, 2004, Universite de Sherbrooke, Canada.
98. International Workshop on Human-Computer Interaction (HCI), in conjunction with ECCV 2004, May 2004, Prague.
99. ACM Multimedia 2004 for the Poster track, October 10-15, New York, NY, USA.
100. The 3rd International Conference on Image and Video Retrieval (CIVR 2004), July 21-23, 2004, Dublin, Ireland.
101. The 17th International Conference on Pattern Recognition (ICPR 2004), Track Four: Multimedia Systems, August 23-26, 2004, Cambridge, United Kingdom.
102. The 5th International Workshop on Multimedia Information Retrieval (MIR), in conjunction with ACM Multimedia, 2003.
103. The 2nd International Conference on Image and Video Retrieval (CIVR), 2003.

Panelist, National Science Foundation (NSF)

1. Panelist, National Science Foundation (NSF), CISE-IIS, 12/2016
2. Panelist, National Science Foundation (NSF), CISE-IIS, 12/2014.
3. Panelist, National Science Foundation (NSF), CISE-IIS-REU-Site, 11/2013.
4. Panelist, National Science Foundation (NSF), CISE-IIS, 05/2013.
5. Panelist, National Science Foundation (NSF), CISE-CNS, 11/2009.
6. Panelist, National Science Foundation (NSF), CISE-IIS, 04/2008.
7. Panelist, National Science Foundation (NSF), Engineering Research Center (ERC), 09/2007.
8. Panelist, National Science Foundation (NSF), CISE-IIS, 02/2007.
9. Panelist, National Science Foundation (NSF), CISE-IIS, 05/2003

Invited Proposal Reviewer for

1. Iceland Research Fund, October 2016.
2. Army Research Office (ARO), April 2016 and October 2016.
3. Hong Kong Research Grant Council, August 2016.
4. NSF external reviewers, XPS program, April 2016
5. Israel Science Foundation, 2010.
6. Temasek Young Investigator Award, National University of Singapore, 2008.
7. Army Research Office (ARO), February, 2008; March 2010.

8. Netherlands Organization for Scientific Research (NWO), 2006.
9. National Science Foundation (NSF), NSF-EEC 2003.

Technical Committee of International Association of Science and Technology for Development (IASTED) on Image Processing, Term 2004-2007.

Panelist in IEEE Admission & Advanced (A&A) Panel Meeting for IEEE Senior Membership Application Evaluation to be held at the Hyatt Hill Regency Hill Country Resort and Spa in San Antonio on November 20, 2004.

Reviewer for Journals

IEEE Transactions on PAMI, CSVT, Image Processing, Signal Processing, Multimedia, Computational Biology and Bioinformatics, Knowledge Database and Engineering, Systems, Man and Cybernetics, part B, Ultrasonics, Ferroelectrics, and Frequency Control.

International Journals: ACM Multimedia Systems Journal, ACM Transactions on Multimedia Computing, Communications and Applications, Journal of Computer Vision and Image Understanding, EURASIP Journal on Applied Signal Processing, Journal of Image and Vision Computing, Pattern Recognition, Pattern Recognition Letters, Pattern Analysis and Applications, Journal of Visual Languages and Computing, Information Sciences: An International Journal, Multimedia Tools and Applications: An International Journal, Journal of Data & Knowledge Engineering, Journal of Electronic Imaging.

Reviewer for International Conferences

Major IEEE and ACM conferences: ACM-Multimedia, ICCV, ICME, ACM CIVR, ICCV, CVPR, ICIP, ICPR, ISCAS, CIBCB

Workshops: IEEE ICCV Workshop on Human-Computer Interaction, IEEE International Workshop on Genomic Signal Processing and Statistics, ACM International Workshop on Multimedia Information Retrieval, International Workshop on Content-Based Multimedia Indexing, International Workshop on Machine Intelligence, International Workshop on Multidisciplinary Image, Video, and Audio Retrieval and Mining.

Others: F&G, NIPS, VCIP, SPIE Multimedia Content Analysis, Management and Retrieval, IASTED International Conference on Signal and Image Processing, The IASTED International Conference on Artificial Intelligence and Applications, The 24th IASTED International Conference on Modeling, Identification, and Control, IASTED International Conference on Visualization, Imaging & Image Processing.

TEACHING ACTIVITIES

Organized Courses

CS 6243 Machine Learning, graduate course, Fall 2017, Spring 2016, Spring 2014.

CS 6723 Image Processing, graduate course, Fall 2002-2005, Spring 2011, Fall 2013.

CS 3843 Computer Organization, *undergraduate core course*, Fall 2009, Spring 2010, Fall 2012, Spring 2013, Fall 2013, Fall 2014, Fall 2016, Spring 2017, Fall 2017, Spring 2018.

CS 3233 Discrete Mathematical Structure, *undergraduate core course*, Spring 2003-2007, Fall 2014, Fall 2015, Spring 2015.

CS 2513 Computer Organization I, *undergraduate core course*, Fall 2005, 2007.

CS 1173 Data Analysis and Visualization using MATLAB, Spring 2010-2012, Fall 2010-2011.

CS 3793 Introduction to Artificial Intelligence, Fall 2006.

CS 4763 Multimedia Systems, Spring 2007, 2008.

CS 7123 Research Seminar, Fall 2007, 2009, 2011.

Dissertation Supervised - Completed

[PHD-1]. Hengheng Zhang, CS, UTSA (Chair), 2015-2021

Thesis title: Robust Representation Learning for Person Re-Identification.

Hengheng Zhang joined Huawei as Researcher in March 2021.

[PHD-2]. Yang Zhou, Ph.D., UTSA (Chair), 2012-2016

Thesis Title: Video Representation for Fine-Grained Action Recognition.

Yang Zhou joined Qualcomm as Research Scientist in Summer 2016.

[PHD-3]. Junjie Cai, Ph.D., UTSA (Chair), 2012-2015

Thesis Title: Attribute-assisted Learning for Web Image Applications

Junjie Cai joined Blippar as Research Scientist in Fall 2015.

[PHD-4]. Xia Li, Ph.D., UTSA (Chair), 2007-2013

Thesis Title: Robust Image Representation for Classification and Retrieval

Xia Li joined Google to do Image Search.

[PHD-5]. Jie Xiao, Ph.D., UTSA (Chair), 2007-2013

Thesis Title: Image Understanding from Web Media Resources

Jie Xiao joined Rocket Fuel Inc. as a Research Scientist in June 2013.

[PHD-6]. Yijuan Lu, Ph.D., UTSA (Chair), 2003-2008

Thesis Title: Statistical Learning for Indexing and Retrieval and Their Applications.

Yijuan Lu joined Texas State University, San Marcus, TX as a tenure-track Assistant Professor in August 2008.

[PHD-7]. Jie Yu, Ph.D., UTSA (Chair), 2001-2007

Thesis Title: Generalized Discriminant Analysis in Content-based Image Retrieval.

Jie Yu joined Kodak Research Laboratories, Rochester, NY in October 2007.

[MS-1]. Yuning Xu, M.S., UTSA (Chair), December 2007.

MS Presentation: Fingerprint Verification.

Yuning joined Microsoft Corporation, Redmond, WA in January 2008.

[MS-2]. Nahid Islam, CS, UTSA (chair)

MS Presentation: Human Face Detection Following by Gender and Age Estimation Using Patch Based Discrete Cosine Transformation and Histogram Oriented Gradient Features

November 17, 2017.

- [MS-3]. Tuan Dinh, CS, UTSA (chair)
MS Presentation: Utilizing Machine Learning on Recognizing Facial Expression,
November 15, 2017
- [MS-4]. Travis Tatsch, CS, UTSA (chair)
Started in Spring 2018, graduated in 2018.
- [MS-5]. Carolyn Weng, CS, UTSA (Chair)
Started in Spring 2018, graduated in 2018.

Independent Studies at UTSA

1. Christopher L. La Valle, CS Master student, Spring 2018.
2. Carolyn Weng, CS Master student, Spring 2018.
3. Mauricio Martinez, CS undergraduate student, Spring 2018.
4. Shawn Roberts, CS undergraduate student, Spring 2018.
5. Amatullah Yousuf, CS undergraduate student, Spring 2018.
6. Akinrinmade Moyosore, CS undergraduate student, Fall 2017.
7. Gerson Rodrigues, CS Master student, Fall 2017.
8. Sean Hassan, CS undergraduate student, Fall 2017.
9. Saeef Ahmad, CS doctoral student, Fall 2017.
10. Trase Westbrook, CS undergraduate student, Spring 2017.
11. Nahid Islam, CS Master student, Fall 2016.
12. Charles Foreman, CS undergraduate student, Spring 2016
13. Jonathan Mai, CS undergraduate student, Spring 2016
14. Travis Tatsch, CS undergraduate student, Spring 2016
15. Dinh Tuan, CS Master student, Spring 2016
16. Tzu-Sheng Hsu, CS Master student, Spring 2016
17. Jose R. Barroso, CS undergraduate student, Spring 2015
18. Oscar Falcon, CS undergraduate student, Spring 2015
19. Adrian J. Martinez, CS undergraduate student, Spring 2015
20. Michael J. Price, CS undergraduate student, Spring 2015
21. Deepti Gupta, CS Master student, Fall 2014

Supervising Other Graduate Students in Research at UTSA

1. Yuning Xu (since 2006), co-authored one paper, now at Microsoft.
2. Qing Xue (2003-2005), co-authored four papers.
3. Kevin Su (2004-2005), co-authored one paper, now at Microsoft.
4. Like Zhang (2004-2005), co-authored two papers, now at Microsoft.
5. Robert Baltimore (2003-2004).

Supervising Minority Graduate Students in Research

1. Maribel Sanchez (minority female), MBRS-RISE student, Biology Department, September 2004 – September 2006, co-authored two journal papers and five conference papers.
2. Jennifer Neary (non-minority female), MBRS-RISE student, Biology Department, March 2006 – Present, co-authored two journal papers.
3. Robert Baltimore, (minority male), 2003-2004.

Supervising Undergraduate Student to Earn Honor Credit

1. Phuong Nguyen, CS 3233 Discrete Mathematical Structure, Spring 2004.

Sponsoring Student Internships

1. Nahid UI Islam, Software engineering Intern, Intel Corporation, Spring 2017.
2. Rolland Esquivel, Software engineering intern, Sierra Nevada Corporation, Fall 2006.
3. Iguel A. Salazar Jr., Software engineering intern, Sierra Nevada Corporation, Fall 2006.
4. Heather L. Hernandez, IT Intern/Researcher, USAA, Fall 2006.
5. Joaquin Fernandez, IT Intern/Researcher, USAA, Summer 2006.
6. Travis W. Radicke, IT Intern/Researcher, USAA, Spring 2006.
7. Ryan M. Brown, IT Intern/Researcher, USAA, Spring 2008.
8. John Hobbs, IT Intern/Researcher, Bible Study Fellowship, Summer 2010.
9. Nahid Islam, Intel Inc., Spring 2017.

Interns Supervised at MSRA

- Shiliang Zhang, Chinese Science of Academy, 09/2008-04/2009.
- Wengang Zhou, USTC, 01/2009-08/2009.
- Bingbing Ni, National University of Singapore, 07/2009-09/2009.
- Yida Wang, Beijing Normal University, 04/2009-07/2009.
- Jeffrey Wang, USTC, 07/2009-08/2009.
- Guangxing Ren, USTC, 03/2009-06/2009.
- Youshan Miao, USTC, 03/2009-06/2009.
- Jiemin Liu, Shanghai Jiaotong University, 09/2008-03/2009.
- Yue Cui, The University of NewCastle, Australia, 03/2009-07/2009.

Advisee Achievements and Recognitions

1. **Best Graduate Poster Presentation.** Hengheng Zhang received the **Best Graduate Poster Presentation** at the 2016 UTSA College of Sciences Research Conference, on October 7, 2016. The award is a Lenovo laptop.
2. **Best Student Paper Candidate.** Junjie Cai was the first student author for our paper titled “Exploring Feature Space with Semantic Attributes,” *IEEE International Conference on Multimedia and Expo (ICME)*, June 29-July 3, 2015, Torino, Italy.

3. **2014 ACM Multimedia Student Travel Grant.** Junjie Cai received the NSF sponsored ACM Multimedia Student Travel Award to attend *ACM Multimedia 2014*, November 3-November 7, 2014, at Orlando, FL. Each award is \$1000.
4. **2014 UTSA Graduate Development Award, UTSA Graduate School,** Junjie Cai received this award in 2014.
5. **2014 Baidu Scholarship.** Jianqiu Ji (My co-advised doctoral student in Tsinghua University received this prestigious award.
6. **2013 UTSA Graduate Development Award, UTSA Graduate School,** Junjie Cai received this award in 2013.
7. **2013 Excellent Doctoral Dissertation Award of China Computer Federation (CCF) (among top 10).** Shiliang Zhang (my Post-Doc at UTSA 2012-2014 and co-supervised doctoral student in Chinese Academy of Science) received this prestigious award.
8. **2013 Outstanding Doctoral Dissertation, Chinese Academy of Sciences (among top 100).** Shiliang Zhang (my Post-Doc at UTSA 2012-2014 and co-supervised doctoral student in Chinese Academy of Science) received this prestigious award.
9. **2013 Outstanding Doctoral Dissertation, Chinese Academy of Sciences (among top 100).** Wengang Zhou (my Post-Doc at UTSA 2011-2013 and co-supervised doctoral student in University of Science and Technology of China) received this prestigious award.
10. **2012 President Scholarship, Chinese Academy of Science (among top 0.1%).** Shiliang Zhang (my Post-Doc at UTSA 2012-2014 and co-supervised doctoral student in Chinese Academy of Science) received this prestigious award.
11. **ICCV Sponsored Student Travel Award,** Lingxi Xie (my co-supervised student in Tsinghua University) received the 2013 ICCV sponsored Student Travel Award to attend *2013 International Conference on Computer Vision (ICCV)*, December 3-6, Sydney, Australia.
12. **NSF Sponsored Student Travel Award,** Xia Li received the NSF sponsored ACM Multimedia Student Travel Award to attend *ACM Multimedia 2011*, November 28-December 1, 2011, at Scottsdale, AZ. Each award is \$700.
13. **2010-2011 University Teaching Fellows,** Jie Xiao and Xia Li received the 2010-2011 fellowship, two out of 10 recipients at UTSA.
14. **Best Student Poster,** Jie Xiao received the Best Poster in 2010 COS Research Conference, College of Science, UTSA, May 28, 2010.
15. **Top 10% Best Paper Award,** Shiliang Zhang (my co-supervised student in Chinese Academy of Science) received 2011 MMSP top 10% Best Paper Award, October, 2011.
16. **MSRA Fellowship Award,** Shiliang Zhang (my co-supervised student in Chinese Academy of Science) received 2010 MSRA Fellowship Award (cash award \$6000), November 2010.
17. **ACM Multimedia Student Travel Grants,** Shiliang Zhang, Wengang Zhang, and Shuhui Wang (my co-supervised students in Chinese Academy of Science) received ACM Travel Grants of US\$500 each recipient to attend ACM Multimedia 2010 in Florence, Italy. This award is sponsored by Google, IBM, *etc.*

18. **Star of Tomorrow Internship Program**, Shiliang Zhang (my co-supervised student in Chinese Academy of Science) received this award from Microsoft Research Asia (MSRA), China 2009.
19. **Nomination for Microsoft Research Faculty Summit**, July 27-29, 2008, Redmond, WA. In her final year during her doctoral study, Yijuan Lu was nominated because of her stellar researcher record.
20. **Star of Tomorrow Internship Program**, Yijuan Lu received this award from Microsoft Research Asia (MSRA), China, 2007
21. **HEB Dissertation Fellowship**, Yijuan Lu received 2007 HEB Dissertation Fellowship - one of six recipients for this award. She received \$2500 award.
22. **UTSA Presidential Dissertation Fellowship**, Jie Yu received 2006 UTSA Presidential Dissertation Fellowship – one of six recipients in UTSA. He also received \$3333 award.
23. **NSF Sponsored Student Travel Award**, Jie Yu and Yijuan Lu both received the NSF sponsored ACM Multimedia Student Travel Award to attend *ACM Multimedia 2006*, October 23-27, 2006, at Santa Barbara, CA. Each award is \$280.
24. **IEEE Student Travel Grant**, Jie Yu received the Student Travel Grant from *IEEE CVPR* to attend *IEEE CVPR 2006* in New York, NY. The award is \$500.
25. **Best Student Paper**, Jie Yu received an award certificate and cash award of euros € 400 for the *Best Student Paper* in IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2006.
26. **Best Paper Candidate in Retrieval Track**, Yijuan Lu was the first author for a Best Paper Candidate in Retrieval Track in Pacific-rim Conference on Multimedia (PCM), 2007.

UNIVERSITY SERVICES

- **University level**

1. **Faculty Senate Research Advisory Committee**, UTSA 2013-2015.
2. **Core Curriculum Assessment Committee**, Sep. 1, 2014-August 31, 2016.
3. **Faculty Senate at UTSA**, January 2013 - August 2013.
4. **UTSA Faculty Grievance Committee**, 2012-2013.
5. **Faculty Senate Research Advisory Committee**, UTSA 2012-2013.
6. **University Scholarship Committee**, UTSA, 2012-2013.
7. **Faculty Senate Research Advisory Committee**, UTSA 2011-2012.
8. **University Curriculum Review Committee**, UTSA, 2011-2012.
9. **UTSA Faculty Grievance Committee**, 2010-2011.

- **College level**

1. **College Faculty Review Advisory Committee (CFRAC)**, College of Science, UTSA, 2015-2016.
2. **College Policy Committee**, College of Science, UTSA, 2015.
3. **College Policy Committee**, College of Science, UTSA, 2012-2013.

4. **Research Conference Co-Chair in College of Science**, UTSA, 2012.
5. **College Policy Committee**, College of Science, UTSA, 2011-2012.
6. **Research Conference Committee in College of Science**, UTSA, 2009, 2010.
7. **Graduate Recruitment Committee**, College of Science, UTSA, November, 2007 - 2008.
- **Department level**
 1. **Department Faculty Advisory Committee (DFAC) Chair, 2017-2018**
 2. **Department Faculty Advisory Committee (DFAC) member**, 2016-2017.
 3. **Department Faculty Advisory Committee (DFAC)**, 2015-2016
 4. **Graduate Recruit Committee Chair**, Department of Computer Science, 2016-2017.
 5. **Graduate Recruit Committee Chair**, Department of Computer Science, 2015-2016.
 6. **Communication & Outreach Committee**, Department of Computer Science, 2016-2017
 7. **Communication & Outreach Committee**, Department of Computer Science, 2015-2016
 8. **Faculty Awards Nominations Committee**, Department of Computer Science, 2015-2016
 9. **DFRAC Committee**, Department of Computer Science, 2014-2017
 10. **Graduate Studies Committee**, Department of Computer Science, UTSA, 2015-2016
 11. **D-CPER Committee**, Department of Computer Science, 2014.
 12. **Faculty Awards Nominations Committee**, Department of Computer Science, 2013-2015
 13. **Graduate Recruit Committee Chair**, Department of Computer Science, 2013-2015.
 14. **Communication & Outreach Committee**, Department of Computer Science, 2013-2015.
 15. **Graduate Studies Committee**, Department of Computer Science, UTSA, 2013-2014.
 16. **DFRAC**, Department of Computer Science, UTSA, 2012-2013.
 17. **Graduate Studies Committee**, Department of Computer Science, UTSA, 2012-2013.
 18. **Graduate Recruitment Committee**, Department of Computer Science, UTSA, 2012-2013.
 19. **Graduate Recruitment Committee**, Department of Computer Science, UTSA, 2011-2012.
 20. **Periodic Performance Evaluation Review Committee (PPE)**, Department of Computer Science, UTSA, 2011-2012.
 21. **Graduate Recruitment Committee**, Department of Computer Science, 2009-2010.
 22. **Graduate Studies Committee**, Department of Computer Science, UTSA, 2005- 2008.
 23. **Ph.D. Steering Committee**, Department of Computer Science, UTSA, 2003-2005.
 24. **Curriculum Subcommittee Member** 2006-2007 for Computer Organization I & II and Computer Architecture, Department of Computer Science, UTSA.
 25. **Curriculum Subcommittee Member** 2006-2007 for Discrete Mathematical Structure and Analysis of Algorithms, Department of Computer Science, UTSA.
 26. **Colloquium Coordinator**, Department of Computer Science, UTSA, 2003-2005.
 27. **Organizer** of Data and Vision Weekly Seminar, Computer Science, 2004-2011. Co-organized with Kay Robbins, Weining Zhang, Thomas Bylander, Yufei Huang (EE), Carola Wenk, Jianhua Ruan. URL: <http://www.cs.utsa.edu/~qitian/seminar.html>

- **Faculty Hooding for Masters’ degree students**, UTSA Graduation Commencement, Dec. 2006, Dec. 2003, Dec. 2002, May 2012.
- **Faculty Hooding for PhD’ degree students**, UTSA Graduation Commencement, May, 2008.
- **Volunteer** in UTSA Graduate Fair, October 7, 2003.
- **PH.D. Thesis Committees**
 - [PHD-1]. Junjie Cai, CS, UTSA (Chair)
Dissertation title: Attribute-assisted Learning for Web Image Applications.
Graduated in Fall 2015.
Junjie Cai joined Blippar as Research Scientist, Mountain View, California.
 - [PHD-2]. Jie Xiao, CS, UTSA (Chair),
Dissertation title: Image Understanding from Web Media Resources,
Graduated in Summer 2013.
Jie Xiao joined Rocket Fuel as Rocket Scientist.
 - [PHD-3]. Xia Li, CS, UTSA (Chair)
Dissertation title: Robust Image Representation for Classification and Retrieval”,
Graduated in December 2013.
 - [PHD-4]. Yijuan Lu, CS, UTSA (Chair), 2004-2008.
Dissertation Title: Statistical Learning for Indexing and Retrieval and Their
Applications. Graduated in summer 2008.
Yijuan Lu joined Texas State University, San Marcus, TX as a tenure-track Assistant
Professor in August 2008.
 - [PHD-5]. Jerry Yu, CS, UTSA (Chair), 2003-2007.
Dissertation Title: Generalized Discriminant Analysis in Content-based Image.
Retrieval. Defended in May 2007.
Jie Yu joined Kodak Research Laboratories, Rochester, NY in October 2007.
 - [PHD-6]. Yang Zhou, CS, UTSA (Chair) 2011-2016
Thesis Proposal “Video Representation for Fine-Grained Action Recognition,”
Passed thesis proposal on April 2, 2015.
Expected graduation in Summer 2016.
 - [PHD-7]. Chao Mei, CS, UTSA (chaired by John Quarles), “Improving Virtual Reality ASD
Intervention Training with 3DUI and 3D Virtual Humans,” April 26, 2016.
 - [PHD-8]. Zhen Gao, CS, UTSA (chaired by Jianhua Ruan), “Machine Learning Approaches
Toward cis-regulatory Element Discovery and Transcription-factor Binding Cites
Modeling,” August 28, 2015.
 - [PHD-9]. Iffat Chowdhury, CS, UTSA (chaired by Matt Gibson), “Developing Tools and
Algorithms in Digital Geometry,” April 23, 2015.
 - [PHD-10]. Qing Wang, CS, UTSA (chaired by Matt Gibson), “Understanding of Geometric
Visibility in Polygons,” April 21, 2015.
 - [PHD-11]. Arezou Moussavi, ECE, UTSA (chaired by Mo Jamshidi), “Analyses of Predictive
Models via Stacked Autoencoders: Applications to Real-Valued and Nominal Data”,
December 12, 2014.

- [PHD-12]. Rongkai Guo, CS, UTSA (chaired by Jonh Quarles), Thesis proposal titled “Towards Understanding and Improving Motivation for Rehabilitation in Environments for Mobility Impaired Persons,” August 6, 2014
- [PHD-13]. Chao Mei, Thesis proposal titled “Improving Virtual Reality ASD Rehabilitation Training with 3DUI and 3D Immersive Virtual Humans,” CS, UTSA (Chair, John Quarles), November 25, 2014
- [PHD-14]. Gayani Samaraweera, CS, UTSA (Chair John Quarles), Thesis proposal titled “Movement Alteration by Latency Manipulation in a Virtual Environment for Users with Multiple Sclerosis,” January 24, 2014
- [PHD-15]. Yiming Han, CS, UTSA (Chair Anthony T. Chronopoulos)
- [PHD-16]. Kyung Min Su, CS, UTSA (Chair Kay Robbins), thesis proposal titled “Content-based EEG Data Retrieval and Its Applications to Machine Learning in Neuroscience,” January 13, 2014.
- [PHD-17]. Kenneth Holladay, CS, UTSA (Chair Kay Robbins).
- [PHD-18]. Fatma Turkey Arslan, EE Department, UTSA (Chair Yufei Huang)
- [PHD-19]. Mark Doderer, CS, UTSA (Chair Kay Robbins).
- [PHD-20]. Altas Cook, CS, UTSA(Chair Carola Wenk)

- **M.S. Committees - Theses and Presentations**

- [MS-1]. Hangsheng Cai, “Content-based Image Retrieval: A Survey”, December 11, 2002
- [MS-2]. Robert Baltimore, “Performance of Communication Protocols in Support of Middleware for Distributed Systems”, December 2002.
- [MS-3]. Rui Wu, “XML Data Storage and Query”, April 25, 2003.
- [MS-4]. Ren Ra, “Support Vector Machine, Boosting, and Microarray Data”, April 28, 2003.
- [MS-5]. Krishna K. Kondraguntla, “Querying Streaming XML Data”, December 5, 2003.
- [MS-6]. Chris Zoller, “Automatic Sports Video Summarization,” April 11, 2005.
- [MS-7]. Rachel Smith, “Virtual Grasping Using A Data Glove,” April 10, 2006.
- [MS-8]. Kevin Do, “Alignment for Whole Gene Sequence,” April 24, 2008.
- [MS-9]. Yuning Xu, (Chair) “Fingerprint Verification,” December 2007.
- [MS-10]. Padmavathi Paruchuri, “Comparative Studies of Graph Clustering Algorithms on Protein Complex Predictions,” November 15, 2011.
- [MS-11]. Arif Bin Hossain, “Preprocessing and Spectral Pattern Clustering of Multi-Channel EEG data Based on Empirical Model Decomposition,” April, 18, 2012.
- [MS-12]. Yuan Xie, “Applications of Machine Learning Techniques,” December 5, 2014.
- [MS-13]. Sai Gandham (Chair), “Network Virtualization and Software Defined Network,” April 13, 2016.
- [MS-14]. Surendra Aluru (Chair), “Image Retrieval,” April 25, 2016.
- [MS-15]. Saeef Ahmad, “Deep Learning for Image Classification,” April 25, 2016.
- [MS-16]. Safwa Ameer, CS, UTSA (member), “Recognizing and Reconstructing Pseudo Polygons and Terrain from their Visibility Graphs,” November 6, 2017.
- [MS-17]. Tuan Dinh, CS, UTSA (Chair), “Utilizing Machine Learning on Recognizing Facial Expression,” November 15, 2017.

- [MS-18]. Nahid Islam, CS, UTSA (Chair), “Human Face Detection Following by Gender and Age Estimation Using Patch Based Discrete Cosine Transformation and Histogram Oriented Gradient Features,” November 17, 2017.
- [MS-19]. Carolyn Weng, CS, UTSA (Chair), “Image Classification”, April 23, 2018.