Xiaoshan Yang

Work Experiences

o 2018.11-Present, Associate Researcher

National Lab of Pattern Recognition, Institute of Automation (CASIA), Chinese Academy of Sciences, Beijing, China

- 2016.07–2018.10, Assistant Researcher
 National Lab of Pattern Recognition, Institute of Automation (CASIA), Chinese Academy of Sciences, Beijing, China
- 2013.09–2014.04, Algorithm Engineer
 China-Singapore Institute of Digital Media (CSIDM), Singapore
- 2012.06–2012.09, Algorithm Engineer NEC Laboratories, Beijing, China

Education

2012.09–2016.07, Ph.D. in Pattern Recognition and Intelligent System
 National Lab of Pattern Recognition, Institute of Automation (CASIA), Chinese
 Academy of Sciences

Advisors: Changsheng Xu and Tianzhu Zhang.

- 2009.09–2012.03, Master in Computer Science Beijing Institute of Technology (BIT) Advisors: Yunde Jia and Jianbing Sheng.
- 2005.09–2009.07, Bachelor in Maths and Applied Maths North China University of Technology (NCUT), Rank 1/70

Research Interests

- Multimedia & Computer Vision: Image/Video Analysis, Event Analysis
- Pattern Recognition & Machine Learning: Sparse Coding, Deep Learning

Publications

- Xiaoshan Yang, Changsheng Xu: Image Captioning by Asking Questions. ACM Transactions on Multimedia Computing, Communications and Applications: (2019)
- Junyu Gao, Tianzhu Zhang, Xiaoshan Yang, Changsheng Xu: P2T: Part-to-Target Tracking via Deep Regression Learning. IEEE Trans. Image Processing 27(6): 3074-3086 (2018)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: Deep-Structured Event Modeling for User-Generated Photos. IEEE Trans. Multimedia 20(8): 2100-2113 (2018)

- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: Text2Video: An End-to-end Learning Framework for Expressing Text With Videos. IEEE Trans. Multimedia 20(9): 2360-2370 (2018)
- Yifan Jiao, Zhetao Li, Shucheng Huang, Xiaoshan Yang, Bin Liu, Tianzhu Zhang: Three-Dimensional Attention-Based Deep Ranking Model for Video Highlight Detection. IEEE Trans. Multimedia 20(10): 2693-2705 (2018)
- Yikun Sheng, Xiaoshan Yang, Changsheng Xu: A Standalone Demo for Quiz Game "Describe and Guess". MIPR 2018: 206-207
- Yikun Sheng, Xiaoshan Yang, Xueliang Liu, Changsheng Xu: Attribute-Assisted Domain Transfer from Image to Sketch. MIPR 2018: 287-292
- Fan Qi, Xiaoshan Yang, Changsheng Xu: A Unified Framework for Multimodal Domain Adaptation. ACM Multimedia 2018: 429-437
- Junyu Gao, Tianzhu Zhang, Xiaoshan Yang, Changsheng Xu: Deep Relative Tracking. IEEE Trans. Image Processing 26(4): 1845-1858 (2017)
- Yifan Jiao, Xiaoshan Yang, Tianzhu Zhang, Shucheng Huang, Changsheng Xu:
 Video Highlight Detection via Deep Ranking Modeling. PSIVT 2017: 28-39
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu, Shuicheng Yan, M. Shamim Hossain, Ahmed Ghoneim: Deep Relative Attributes. IEEE Trans. Multimedia 18(9): 1832-1842 (2016)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: Semantic Feature Mining for Video Event Understanding. TOMCCAP 12(4): 55:1-55:22 (2016)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: Abnormal Event Discovery in User Generated Photos. ACM Multimedia 2016: 47-51
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: A new discriminative coding method for image classification. Multimedia System 21(2): 133-145 (2015)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: Cross-Domain Feature Learning in Multimedia. **IEEE Trans. Multimedia** 17(1): 64-78 (2015)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu, M. Shamim Hossain: Automatic Visual Concept Learning for Social Event Understanding. IEEE Trans. Multimedia 17(3): 346-358 (2015)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu, Ming-Hsuan Yang: Boosted Multifeature Learning for Cross-Domain Transfer. TOMCCAP 11(3): 35:1-35:18 (2015)
- Jianbing Shen, Xiaoshan Yang, Xuelong Li, Yunde Jia: Intrinsic Image Decomposition Using Optimization and User Scribbles. IEEE Trans. Cybernetics 43(2): 425-436 (2013)
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu: Locality discriminative coding for image classification. ICIMCS 2013: 52-55
- Xiaoshan Yang, Tianzhu Zhang, Changsheng Xu, Min Xu: Graph-Guided Fusion Penalty Based Sparse Coding for Image Classification. **PCM 2013**: 475-484
- Jianbing Shen, Xiaoshan Yang, Yunde Jia, Xuelong Li: Intrinsic images using optimization. CVPR 2011: 3481-3487

Projects

- Youth Fund of NSFC: Knowledge-driven Video Understanding and Analysis
- Research Program of NLPR: Knowledge-driven Adversarial Video Generation
- CCF-Tencent Open Fund: Highlight Detection
- Cooperation Project of Migu: Al Cloud Service for Video Annotation
- International Collaboration Project of NSFC: Personalized Health Management Based on Real-time Behavioral Data

Awards

- o 2018, Best Patent Award, CCF-Tencent Open Fund
- o 2017, Best Paper Award, ChinaMM
- o 2017, Excellent Doctoral Dissertation of Chinese Academy of Sciences
- o 2016, President Scholarship of Chinese Academy of Sciences

Services

- o ACM Multimedia 2018/2019 PC member
- Journal/Conference Reviewer: IEEE TMM, ACM TIST, ACM TOMM, Neurocomputing, MTAP and ACM MM