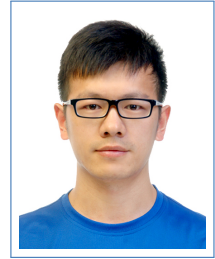# Youbao Tang

Curriculum Vitae

✉ *tybxiaobao@gmail.com*

Education

Sep. 2011–Dec. 2016   **Doctor of Computer Applied Technology**, *Harbin Institute of Technology (HIT)*, China, *Recommendation*.
Supervisor: Professor Xiangqian Wu

Sep. 2009–Jul. 2011   **Master of Computer Science and Technology**, *Harbin Institute of Technology (HIT)*, China, *Recommendation*.
Supervisor: Professor Xiangqian Wu

Sep. 2005–Jul. 2009   **Bachelor of Bioinformatics**, *Harbin Institute of Technology (HIT)*, China, *Top 20%*.

Research Interests

PATTERN RECOGNITION: Writer Identification, Palmprint Recognition
COMPUTER VISION: Visual Saliency Detection, Scene Text Detection
MEDICAL IMAGE PROCESSING, BIOMETRICS and DEEP LEARNING

Publications

JOURNAL

2017   **Youbao Tang**, Xiangqian Wu, "Scene Text Detection using Superpixel based Stroke Feature Transform and Deep Learning based Region Classification", *IEEE Transactions on Multimedia* (Major Revision).

2017   **Youbao Tang**, Xiangqian Wu, "Scene Text Detection and Segmentation via Cascaded Convolution Neural Networks", *IEEE Transactions on Image Processing*, 26(3):1509-1520, 2017.

2016   **Youbao Tang**, Xiangqian Wu, Wei Bu, "Scene Text Detection Based on Multi-Level MSER", *Journal of Zhejiang University (Engineering Science)*, 50(6):1134-1140, 2016.

2015   **Youbao Tang**, Xiangqian Wu, Wei Bu, "Offline Signature Verification Based on ASIFT", *Journal of Beijing University of Aeronautics and Astronautics*, 41(1):110-116, 2015.

2014 Xiangqian Wu (Supervisor), **Youbao Tang**, Wei Bu, "Offline Text-Independent Writer Identification Based on Scale Invariant Feature Transform", *IEEE Transactions on Information Forensics and Security*, 9(3):526-536, 2014.

CONFERENCE

2017 **Youbao Tang**, Xiangqian Wu, "Salient Object Detection with Chained Multi-scale Fully Convolutional Network", *ACM Multimedia Conference (ACMMM)*.

2016 **Youbao Tang**, Xiangqian Wu, "Saliency Detection via Combining Region-level and Pixel-level Predictions with CNNs", *European Conference on Computer Vision (ECCV)*.

2016 **Youbao Tang**, Xiangqian Wu, Wei Bu"Deeply-Supervised Recurrent Convolutional Neural Network for Saliency Detection", *ACM Multimedia Conference (ACMMM)*.

2016 **Youbao Tang**, Xiangqian Wu, "Scene Text Detection via Edge Cue and Multi-Features", *International Conference on Frontiers in Handwriting Recognition (ICFHR)*.

2016 **Youbao Tang**, Xiangqian Wu, "Text-independent Writer Identification via CNN Features and Joint Bayesian", *International Conference on Frontiers in Handwriting Recognition (ICFHR)*.

2015 **Youbao Tang**, Xiangqian Wu, Wei Bu, "Saliency Detection Based on Graph-Structural Agglomerative Clustering", *ACM Multimedia Conference (ACMMM)*.

2014 **Youbao Tang**, Xiangqian Wu, Wei Bu, "Text Line Segmentation Based on Matched Filtering and Top-down Grouping for Handwritten Documents", *International Workshop on Document Analysis Systems (DAS)*.

2014 **Youbao Tang**, Wei Bu, Xiangqian Wu, "Text-Independent Writer Identification Using Improved Structural Features", *Chinese Conference on Biometric Recognition (CCBR)*.

2013 **Youbao Tang**, Xiangqian Wu, Wei Bu, "Offline Text-independent Writer Identification Using Stroke Fragment and Contour Based Features", *International Conference on Biometrics (ICB)*.

2013 **Youbao Tang**, Xiangqian Wu, Wei Bu, Hongyang Wang, "Skew Estimation in Document Images Based on an Energy Minimization Framework", *International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV)*.

2011 Wei Bu, Qiushi Zhao, Xiangqian Wu, **Youbao Tang**, "A Novel Contactless Multimodal Biometric System Based on Multiple Hand Features", *International Conference on Hand-Based Biometrics (ICHB)*.

2011 Xin Cui, Qiushi Zhao, Xiangqian Wu, **Youbao Tang**, "A Contactless Hand Shape Identification System", *International Conference on Advanced Computer Control (ICACC)*.

| 2010 | Xiangqian Wu, Enying Gao, **Youbao Tang**, Kuanquan Wang, "A Novel Biometric System Based on Hand Vein", *International Conference on Frontier of Computer Science and Technology (FCST)*. |

Project Experience

Mar. 2016–Dec. 2016	**Research on Signature Video Based Personal Recognition**, NATIONAL NATURAL SCIENCE FOUNDATION, China, Application Writer and Main Researcher. I was in charge of hand detection and segmentation, and identity recognition via signature video sequences.
Jan. 2015–Dec. 2016	**Research on Automated Fundus Lesion Recogntion Based on Visual Attention Model**, NATIONAL NATURAL SCIENCE FOUNDATION, China, Main Researcher. I was in charge of salient object detection, segmentation and classification.
Jan. 2014–Dec. 2014	**Research on Palmprint Recognition in Complex Environment**, NATIONAL NATURAL SCIENCE FOUNDATION, China, Main Researcher. I was in charge of hand segmentation and palmprint image quality assessment.
Jan. 2011–Dec. 2013	**Research on Automatic Diagnosis Techniques of Diabetic Retinopathy Based on Image Recognition**, NATIONAL NATURAL SCIENCE FOUNDATION, China, Main Researcher. I was in charge of the system implementation.
Feb. 2010–Jul. 2011	**Research on Data Encryption and Decryption Algorithm Based on Palmprint Features**, NATIONAL NATURAL SCIENCE FOUNDATION, China, Main Researcher. I was in charge of encryption and decryption algorithm research and system implementation.
Aug. 2009–Jan. 2010	**Research on Contactless Identity Recognition Techniques by Integrating Hand Vein, Handprint, and Handshape**, NATIONAL 863 HIGH-TECH PROGRAM, China, Main Researcher. I was in charge of the whole identification system development.

Awards

2014	National Scholarship
2014	2nd Price of the Third CCF Youth Internet Entrepreneurship Competition

Skills

Languages	**Mandarin, English**
Programming	**Matlab, C/C++, Python, Java**
Interests	**Basketball (Frequent player), Swimming, Running, Cooking, Singing**