Yuxing **Tang**

PH.D. CANDIDATE IN COMPUTER VISION

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Research Interests

My research focuses on visual feature extraction, large scale image recognition, object detection, transfer learning, and deep learning.

Education

École Centrale de Lyon *Lyon, France*
PH.D. CANDIDATE IN COMPUTER SCIENCE *Sept. 2011 - present*

- Visual Object Recognition and Detection
- Advisor: Prof. Liming Chen and Dr. Emmanuel Dellandréa

Beijing Jiaotong University *Beijing, China*
M.SC. IN ELECTRICAL AND COMMUNICATION ENGINEERING *Sept. 2009 - July. 2011*

- Thesis: Multiple Feature Analysis for Image Manipulation Detection

Beijing Jiaotong University *Beijing, China*
B.SC. IN ELECTRICAL AND COMMUNICATION ENGINEERING *Sept. 2005 - July. 2009*

Experience

VisualSense Project: Tagging visual data with semantic descriptions *LIRIS, CNRS, France*
STUDENT RESEARCHER. EU CHIST-ERA D2K, THE FRENCH NATIONAL RESEARCH AGENCY: ANR-12-CHRI-0002-04 *Sept. 2013 - present*

- Gained expertise in deep learning for computer vision problems, especially about large scale image classification and object detection using very deep convolutional neural networks.
- Working on weakly and semi supervised object detection using transfer learning methods.

VideoSense Project: Rich concepts recognition in multilingual videos through pivot languages *LIRIS, CNRS, France*
STUDENT RESEARCHER. THE FRENCH NATIONAL RESEARCH AGENCY: ANR-2009 CORD 026 02 *Sept. 2011 - Sept. 2013*

- Worked on visual descriptors for image and video content description.
- Participated in PASCAL VOC 2011 classification and detection challenges.
- Co-participated in TRECVID 2012 semantic indexing and instance search tasks.

Fusion of Multiple Features for Image Forensics Analysis *Beijing, China*
STUDENT RESEARCHER. KEY LABORATORY OF INFORMATION AND COMMUNICATION SYSTEM, BEIJING JIAOTONG UNIVERSITY. NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA: PROJECT NO. 60972151. *Sept. 2010 - June. 2011*

- Analysis of different visual features for image manipulation classification and detection.

Cooperatively Overlay Routing Service (CORS) TV, a P2P real-time media streaming service prototype system *Beijing, China*
R&D INTERN. NETWORK AND SECURITY LABORATORY, TSINGHUA UNIVERSITY. SUPPORTED BY NEC LABS CHINA. *May 2010 - Aug. 2010*

- Implemented network coding algorithm to reduce the packet redundancy rate of a P2P TV system.

Training

July 2012 **INRIA Visual Recognition and Machine Learning Summer School** *Grenoble, France*

Publications

1. **Yuxing Tang**, Josiah Wang, Boyang Gao, Emmanuel Dellandrea, Robert Gaizauskas, Liming Chen. Large Scale Semi-supervised Object Detection using Visual and Semantic Knowledge Transfer. *IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Las Vegas. 2016*

2. **Yuxing Tang**, Xiaofang Wang, Emmanuel Dellandréa, Liming Chen. Weakly Supervised Learning of Deformable Part-Based Models for Object Detection via Region Proposals. *Under review*

3. Xiaofang Wang, **Yuxing Tang**, Simon Masnou, Liming Chen. A Global/Local Affinity Graph for Image Segmentation. *IEEE Transactions on Image Processing (**TIP**), vol. 24(4), pp.1399-1411, 2015*

4. **Yuxing Tang**, Xiaofang Wang, Emmanuel Dellandréa, Simon Masnou, Liming Chen. Fusing Generic Objectness and Deformable Part-based Models for Weakly Supervised Object Detection. *IEEE International Conference on Image Processing (**ICIP**), Paris, 2014* **(Top 10% award)**

5. **Yuxing Tang**, Charles-Edmond and Chao Zhu. Fan-shaped Patch Local Binary Patterns for Texture Classification. *11th International Workshop on Content-Based Multimedia Indexing (**CBMI**), Veszprem, 2013*

Honors & Awards

2014	Top 10% paper award, IEEE International Conference on Image Processing	*Paris, France*
2011	Outstanding Graduate Student Leaders, Beijing Jiaotong University	*Beijing, China*
2009-10	Scholarship for Excellent Graduate Students, Beijing Jiaotong University	*Beijing, China*
2007-08	Scholarship for Excellent Students, Beijing Jiaotong University	*Beijing, China*
2006-07	Outstanding Student Leaders, Beijing Jiaotong University	*Beijing, China*