

## Chunlei Peng, Ph.D. Candidate

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CONTACT INFORMATION	VIPS Lab State Key Laboratory of ISN School of Electronic Engineering Xidian University, No. 2 South Taibai Road Xi'an, China, 710071	Phone: +86 15829916976 Email: <a href="mailto:clp.xidian@gmail.com">clp.xidian@gmail.com</a> Homepage: <a href="http://chunleipeng.com/">http://chunleipeng.com/</a>
RESEARCH INTERESTS	Machine learning, computer vision, image processing, and pattern recognition with applications to <b>heterogeneous image transformation</b> (e.g. face sketch-photo synthesis) and <b>heterogeneous face recognition</b> (e.g. matching viewed/composite/forensic sketches to face photos, and matching near-infrared/thermal-infrared images to visible light face images).	
EDUCATION EXPERIENCES	<p>Sep. 2016 - Sep. 2017 <b>Visiting Graduate Student</b> in Biomedical Engineering Department Duke University, Durham NC, USA Supervised by Prof. <a href="#">Sina Farsiu</a></p> <p>Sep. 2012 - Present <b>Ph.D. Candidate</b> in Intelligent Information Processing School of Electronic Engineering Xidian University, Xi'an, China Adviser: <a href="#">Xinbo Gao</a></p> <p>Sep. 2008 - July 2012 <b>Bachelor</b> in Electronic Information Engineering School of Electronic Engineering Xidian University, Xi'an, China Undergraduate thesis: "Adaptive Markov Random Field based Face Sketch-Photo Synthesis" (<i>Outstanding undergraduate thesis</i>) Rank: 6/543</p>	
RESEARCH EXPERIENCES	<ul style="list-style-type: none"><li>• <b>Multimedia Information Processing and Analysis</b>, supported by the National Natural Science Foundation of China (Grant No. 61125204), participant, 2012.01-2015.12</li><li>• <b>Generalized Sparse Representation based Heterogeneous Face Image Transformation and Quality Assessment</b>, supported by National Natural Science Foundation of China (Grant No.61172146), participant, 2012.01-2015.12</li><li>• <b>Heterogeneous Image Transformation and Quality Assessment</b>, supported by the Fundamental Research Funds for the Central Universities (Grant No. JB149901), participant, 2014.01-2015.12</li><li>• <b>On Cross Media Heterogeneous Image Transformation and Recognition based on Big Data</b>, Transverse Research Projects, participant, 2013.11-2015.04</li><li>• <b>Transductive Learning based Heterogeneous Face Image Transformation from An Arbitrary Profile</b>, supported by the Fundamental Research Funds for the Central Universities (Grant No. K50513100009), participant, 2013.01-2013.12</li></ul>	
PUBLICATIONS	<b>Journals</b>	

- [1] **Chunlei Peng**, Xinbo Gao, Nannan Wang, and Jie Li, "Graphical Representation for Heterogeneous Face Recognition," *IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE TPAMI)*, vol. 39, no. 2, pp. 301-312, 2017. (IF: 6.077)
- [2] **Chunlei Peng**, Xinbo Gao, Nannan Wang, Dacheng Tao, Xuelong Li, and Jie Li, "Multiple Representations based Face Sketch-Photo Synthesis," *IEEE Transactions on Neural Networks and Learning Systems (IEEE TNNLS)*, vol. 27, no. 11, pp. 2201-2215, 2016. (IF: 4.854)
- [3] **Chunlei Peng**, Xinbo Gao, Nannan Wang, and Jie Li, "Superpixel-based Face Sketch-Photo Synthesis," *IEEE Transactions on Circuits and Systems for Video Technology (IEEE TCSVT)*, vol. 27, no. 2, pp. 288-299, 2017. (IF: 2.625)
- [4] **Chunlei Peng**, Xinbo Gao, Nannan Wang, and Jie Li, "Sparse Graphical Representation based Discriminant Analysis for Heterogeneous Face Recognition," *arXiv preprint arXiv:1607.00137*, 2016.
- [5] Jie Li, Xinye Yu, **Chunlei Peng**, and Nannan Wang, "Adaptive Representation-based Face Sketch Synthesis," *Neurocomputing*, Accepted, 2016. (IF: 2.392)
- [6] Xinbo Gao, Nannan Wang, **Chunlei Peng**, and Chengyuan Li, "Triple Space Fusion based Face Image Recognition," *Pattern Recognition and Artificial Intelligence*, vol. 28, no. 9, pp. 811-821, 2015. (Invited, in Chinese)

#### Conference

- [1] **Chunlei Peng**, Nannan Wang, Xinbo Gao, and Jie Li, "Face Recognition from Multiple Stylistic Sketches: Scenarios, Datasets, and Evaluation," *European Conference on Computer Vision workshop on Visual Analysis of Sketches*, 2016, pp. 3-18. (Oral)
- [2] **Chunlei Peng**, Jie Li, Nannan Wang, and Xinbo Gao, "Multi-View Representation based Face Sketch Synthesis," *ACM International Conference on Internet Multimedia Computing and Service (ICIMCS)*, 2014, pp. 307-312.
- [3] Decheng Liu, **Chunlei Peng**, Nannan Wang, Jie Li, and Xinbo Gao, "Composite Face Sketch Recognition based on Components," *International Conference on Wireless Communications and Signal Processing (WCSP)*, 2016, pp. 1-5.
- [4] Xinye Yu, Nannan Wang, **Chunlei Peng**, Jie Li, and Xinbo Gao, "Adaptive Representation-based Face Sketch Synthesis," *International Conference on Intelligence Science and Big Data Engineering (IScIDE)*, 2016, pp. 1-8.

#### Book Chapter

- [1] Nannan Wang, Shengchuan Zhang, **Chunlei Peng**, Jie Li, and Xinbo Gao, "Face Sketch Recognition via Data-driven Synthesis," *Handbook of Biometrics for Forensic Science*, Springer, pp. 127-147, 2017. (Invited Book Chapter)

#### PATENTS

- [1] Xinbo Gao, **Chunlei Peng**, et al., "Forensic Sketch based Face Recognition," *Chinese Patent Pending*, No. 201410166300.7, 2014.

- [2] Jie Li, **Chunlei Peng**, et al., "Multiple Features Fusion based Image Synthesis," *Chinese Patent Pending*, No. 201410165469.0, 2014.
- [3] Xinbo Gao, **Chunlei Peng**, et al., "Graphical Representation based Face Sketch-Photo Recognition," *Chinese Patent Pending*, No. 201510397326.7, 2015.
- [4] Xinbo Gao, **Chunlei Peng**, et al., "Superpixel based Face Sketch Synthesis," *Chinese Patent Pending*, No. 201510395890.5, 2015.
- [5] Xinbo Gao, Wenjun Ren, Nannan Wang, Jie Li, **Chunlei Peng**, et al., "Image Quality Assessment based Synthesized Face Image Recognition," *Chinese Patent Pending*, No. 201410133868.9, 2014.
- [6] Xinbo Gao, Yanting Hu, Nannan Wang, Jie Li, Wenjun Ren, **Chunlei Peng**, et al., "Cascade Linear Regression based Image Super-Resolution", *Chinese Patent Pending*, No. 201410766467.7, 2014.
- [7] Jie Li, Mingjin Zhang, Xinbo Gao, Nannan Wang, Shengchuan Zhang, **Chunlei Peng**, et al., "Support Vector Machine based Sketch Style Classification," *Chinese Patent Pending*, No. 201410330945.X, 2014.
- [8] Xinbo Gao, Shengchuan Zhang, Nannan Wang, Jie Li, Mingjin Zhang, Yanting Hu, **Chunlei Peng**, and Wenjun Ren, "Greedy Search based Face Sketch Synthesis," *Chinese Patent Pending*, No. 201410818175.3, 2014.
- [9] Xinbo Gao, Nannan Wang, Wenjun Ren, Jie Li, Yanting Hu, Shengchuan Zhang, Mingjin Zhang, and **Chunlei Peng**, "Feature Similarity based Synthesized Face Sketch Quality Assessment," *Chinese Patent Pending*, No. 201410771613.5, 2014.
- [10] Nannan Wang, Xinbo Gao, Shengchuan Zhang, Jie Li, Feng Wang, Xinye Yu, Mingjin Zhang, **Chunlei Peng**, and Yanting Hu, "One Target Sketch based Face Sketch Synthesis," *Chinese Patent Pending*, No. 201510109196.2, 2015.
- [11] Nannan Wang, Xinbo Gao, Shengchuan Zhang, Jie Li, Feng Wang, Xinye Yu, Mingjin Zhang, **Chunlei Peng**, and Yanting Hu, "Single Photo-Sketch Pair based Face Sketch Synthesis," *Chinese Patent Pending*, No. 201510109027.9, 2015.

AWARDS	Special Scholarship from China Internet Development Foundation	2016
	National Scholarship from Ministry of Education	2015
	Outstanding Graduate Student, Xidian University	2014
	First-Class Graduate Scholarship for PhD candidate, Xidian University	2014
	Second-Class Graduate Scholarship for PhD candidate, Xidian University	2013
	Outstanding Undergraduate Thesis, Xidian University	2012
	Third Prize in ACM-ICPC, Xidian University	2011
	Outstanding Student, Xidian University	2009

PROFESSIONAL ACTIVITY	<p>Review for <b>Neurocomputing</b> (Elsevier) from 2015;</p> <p>Review for <b>27th IEEE International Conference on Tools with Artificial Intelligence (ICTAI)</b>, Vietri sul Mare, Italy, November, 2015.</p>
SKILLS	<p>Proficient in Matlab, C/C++, Qt, OpenCV, Latex; Familiar with Python, Java</p>