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Guang-Tong Zhou

linkedin.com/in/gtzhou

KeyBridge Team
Oracle Labs
Vancouver, Canada

SKILLS

Programming • Python, C++, Matlab, JavaScript

• Experienced with deep learning, large margin methods, clustering, and anomaly detection

• Experienced with image & video understanding, object recognition, and semantic segmentation

Cloud Security • Experienced with log analysis, and health monitoring

EDUCATION

Ph.D.
 Computer Science, Simon Fraser University, Burnaby, BC, Canada
 Master of Science
 Computer Science, Shandong University, Jinan, China
 Computer Science, Shandong University, Jinan, China
 Computer Science, Shandong University, Jinan, China

TECHNICAL WORK EXPERIENCE

Senior Researcher Oracle Labs, Vancouver, Canada Dec 2015-Present

• Deep learning for cloud security: log analysis and health monitoring for Oracle Public Cloud (OPC)

Intern SAP, Vancouver, Canada Sept 2014-May 2015

• Interactive graph visualization: implement with JavaScript, jQuery, d3, SVG, etc.

Intern Disney Research, Pittsburgh, PA, USA Sept-Dec 2013

Scenery part discovery: implemented MCF solver in C++ to speed up clustering by 100 times

RESEARCH EXPERIENCE

Research Assistant Dr. Greg Mori, Simon Fraser University, Burnaby, BC, Canada Jan 2011-Nov 2015

• Structured inference neural networks: jointly recognize image labels at multiple concept layers

• Neural time machine: predict when, where and what is the next activity in sport videos

• Max-margin clustering: extend with latent variables and hierarchical structures

• Semantic segmentation: leverage global object information for local pixel labelings

• Scene understanding: recognize scenes from a collection of objects and surfaces

• Video event analysis: discover events in YouTube videos; recognize falling in nursing home videos

• Anomaly detection: contextual anomaly detection in categorical relational data

Visiting Student Dr. Kai Ming Ting, Monash University, Churchill, Vic, Australia Aug 2009-Feb 2010

• Mass estimation: design and apply it for outlier detection, information retrieval and regression

Visiting Student Dr. Zhi-Hua Zhou, Nanjing University, Nanjing, Jiangsu, China Aug 2008-Jan 2009

• Content-based image retrieval: distance metric learning for relevance feedback

OTHER EXPERIENCE

Teaching Assistant Simon Fraser University, Burnaby, BC, Canada

• Taught Machine Learning (Fall 2011) and Data Structures and Algorithms (Spring 2011)

• Conferences: IJCAI (2013), NIPS (2014,2015,2017), CVPR (2018)

• Journals: **TKDD** (2013), **CVIU** (2014), **TPAMI** (2014, 2016, 2017)

Web Master • ACM SIGKDD Conference 2012 (kdd2012.sigkdd.org)

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KeyBridge Team Oracle Labs Vancouver, BC, Canada

PUBLICATIONS	
[CVPR'16]	Learning Structured Inference Neural Networks with Label Relations.
	Hexiang Hu, Guang-Tong Zhou, Zhiwei Deng, Zicheng Liao and Greg Mori.
	IEEE Computer Vision and Pattern Recognition, 2016.
[THESIS'15]	Toward Scene Recognition by Discovering Semantic Structures and Parts.
	Ph.D. Thesis, Simon Fraser University, 2015.
[ARXIV'15]	Hierarchical Maximum-Margin Clustering.
	Guang-Tong Zhou, Sung Ju Hwang, Mark Schmidt, Leonid Sigal and Greg Mori.
	arXiv:1502.01827, 2015.
[CVPRW'15]	Discovering Human Interactions in Videos with Limited Data Labeling.
	Mehran Khodabandeh, Arash Vahdat, Guang-Tong Zhou, et al.
	Workshop on Group and Crowd Behavior Analysis and Understanding (at CVPR), 2015.
[ECCVW'14]	• Learning Action Primitives for Multi-Level Video Event Understanding.
	Tian Lan, Lei Chen, Zhiwei Deng, Guang-Tong Zhou and Greg Mori.
	International Workshop on Visual Surveillance and Re-Identification (at ECCV), 2014.
[ECCV'14]	Discovering Video Clusters from Visual Features and Noisy Tags.
•	Arash Vahdat, Guang-Tong Zhou and Greg Mori.
	European Conference on Computer Vision, 2014.
[NIPS'13]	Latent Maximum Margin Clustering.
	Guang-Tong Zhou, Tian Lan, Arash Vahdat and Greg Mori.
	Neural Information Processing Systems, 2013.
[CVPR'13]	• Learning Class-to-Image Distance with Object Matchings.
	Guang-Tong Zhou, Tian Lan, Weilong Yang and Greg Mori.
	IEEE Computer Vision and Pattern Recognition, 2013.
[MLJ'13]	• Mass Estimation.
	Kai Ming Ting, Guang-Tong Zhou, Fei Tony Liu and Swee Chuan Tan.
	Machine Learning Journal, 90(1):127-160, 2013.
[PR'12]	 Relevance Feature Mapping for Content-Based Multimedia Information Retrieval.
	Guang-Tong Zhou, Kai Ming Ting, Fei Tony Liu and Yilong Yin.
	Pattern Recognition, 45(4):1707-1720, 2012.
[KDDW'10]	Relevance Feature Mapping for Content-Based Image Retrieval.
	Guang-Tong Zhou, Kai Ming Ting, Fei Tony Liu and Yilong Yin.
[WDD/46]	Workshop on Multimedia Data Mining (at KDD), 2010.
[KDD'10]	Mass Estimation and Its Applications. Val Ming Ting Coung Tong Thou, Fai Tong Live and Sugar Chuan Tong
	Kai Ming Ting, Guang-Tong Zhou, Fei Tony Liu and Swee Chuan Tan. ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2010.
[EJASP'10]	K-means Based Fingerprint Segmentation with Sensor Interoperability.
[FJW3F IO]	Gongping Yang, Guang-Tong Zhou, Yilong Yin and Xiukun Yang.
	EURASIP Journal on Advances in Signal Processing, 2010(1):729378, 2010.