

## Xuebin Qin

CONTACT INFORMATION	Department of Computing Science University of Alberta Edmonton, AB, Canada, T6G 2E8 Homepage: <a href="http://webdocs.cs.ualberta.ca/~xuebin/">webdocs.cs.ualberta.ca/~xuebin/</a>	(780)604-9821 xuebin@ualberta.ca
RESEARCH INTERESTS	Computer vision and image/video processing including object visual tracking, detection and recognition.	
EDUCATION	<b>University of Alberta, Canada</b> PhD student in Computing Science Advisor: Prof. Martin Jagersand <b>Peking University, China</b> M.Sc. in Cartography and Geographical Information System Advisor: Prof. Min Sun <b>Shandong Agricultural University, China</b> B.Eng in Geomatics(Engineering of Surveying and Mapping)	Sep 2015 – Present        Sep 2012 – Jul 2015        Sep 2008 – Jul 2012
PUBLICATIONS	<p><b>Xuebin Qin</b>, Shida He, Zichen Zhang, Masood Dehghan, Jun Jin and Martin Jagersand. <i>Real-Time Edge Template Tracking via Homography Estimation</i>, IEEE/RSJ International Conference on Intelligent Robots and Systems, 2018.</p> <p><b>Xuebin Qin</b>, Shida He, Xiucheng Yang, Masood Dehghan, Qiming Qin and Martin Jagersand. <i>Accurate Outline Extraction of Individual Building from High Resolution Aerial Images</i>, IEEE Geoscience and Remote Sensing Letters, 2018.</p> <p><b>Xuebin Qin</b>, Shida He, Zichen Zhang, Masood Dehghan and Martin Jagersand. <i>ByLabel: A Boundary based Semi-Automatic Image Annotation Tool</i>, IEEE Winter Conf. on Applications of Computer Vision, 2018.</p> <p>Shida He, <b>Xuebin Qin</b>, Zichen Zhang and Martin Jagersand. <i>Incremental 3D Line Segment Extraction from Semi-dense SLAM</i>, International Conference on Pattern Recognition, 2018.</p> <p><b>Xuebin Qin</b>, Shida He, Zichen Zhang, Masood Dehghan and Martin Jagersand. <i>Real-time salient closed boundary tracking using perceptual grouping and shape priors</i>, the 28th British Machine Vision Conference, 2017.</p> <p><b>Xuebin Qin</b>, Shida He, Camilo Perez Quintero, Abhineet Singh, Masood Dehghan and Martin Jagersand. <i>Real-time salient closed boundary tracking via line segments perceptual grouping</i>, IEEE/RSJ International Conference on Intelligent Robots and Systems, 2017.</p> <p><b>Xuebin Qin</b>, Martin Jagersand, Xiucheng Yang, and Jun Wang. <i>Building facade recognition from aerial images using Delaunay Triangulation induced feature perceptual</i></p>	

grouping, IEEE International Conference on Pattern Recognition, 2016.

Xiucheng Yang, **Xuebin Qin**, Jun Wang, Jianhua Wang, Xin Ye, and Qiming Qin. *Building facade recognition using oblique aerial images*, Remote Sensing, 2015.

Jun Wang, Xiucheng Yang, **Xuebin Qin**, Xin Ye, and Qiming Qin. *An efficient approach for automatic rectangular building extraction from very high resolution optical satellite imagery*, IEEE Geoscience Remote Sensing Letter, 2015.

Xiucheng Yang, Qiming Qin, **Xuebin Qin**, Jun Wang, Yanbing Bai, Jianhua Wang, and Li Chen. *Facade reconstruction from oblique aerial images*, IEEE International Geoscience and Remote Sensing Symposium, 2014.

**Xuebin Qin**, Qiming Qin, Xiucheng Yang, Jun Wang, Chao Chen, and Ning Zhang. *Feasibility study of building seismic damage assessment using oblique photogrammetric technology*, IEEE International Geoscience and Remote Sensing Symposium, 2013.

RESEARCH EXPERIENCES	<b>University of Alberta</b>	<b>Sep 2015 - Present</b>
	Research Assistant, Vision and Robotics Group.	
	#Visual object high DOF tracking	
	#Perceptual grouping and graph based optimization	
	<b>Peking University</b>	<b>Sep 2012 – Jul 2015</b>
	Research Assistant, RS and GIS Institute	
	#Aerial image based post-earthquake building damage assessment	
	#Feature extraction, object recognition and 3D reconstruction	
	<b>Microsoft Device Group(NOKIA BEIJING)</b>	<b>Jul 2014 – Aug 2014</b>
	Research Intern	
	#Color and gray images registration and fusion for dual cameras	
AWARDS	Alberta Innovates Graduate Student Scholarship	09/2017-08/2019
	GSA Academic Travel Award	12/2016
	Guanghua scholarship	09/2014-07/2015
	First academic scholarship	09/2014-07/2015
	Second academic scholarship	09/2013-07/2014
	Third academic scholarship	09/2012-07/2013
	Outstanding bachelor's degree thesis	06/2012
	Merit student	10/2011
	Second rank of excellent student scholarship	10/2011-07/2012
	Second rank of excellent student scholarship	10/2010-07/2011
	Third prize of surveying and mapping skills contest	12/2009
	Model student of academic records	09/2009
	First rank of excellent student scholarship	10/2009-07/2010
SKILLS	Programming: C/C++, MATLAB, python, Linux, Windows.	
	Public Library: OpenCV, pytorch	
	Language: Mandarin(native), English(fluent)	