I published most of my work at top international conferences in robotics and computer vision such as the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), the International Conference on Computer Vision (ICCV), the European Conference on Computer Vision (ECCV), or the International Conference on Robotics and Automation (ICRA). Due to acceptance rates as low as 25%, publications at top computer vision conferences are considered an outstanding achievement comparable to publications in top journals in the field.

Peer-reviewed journal publications


Peer-reviewed conference publications

2018


2017


2016


• L Kneip, C Sweeney, and R Hartley. The generalized relative pose and scale problem: View-graph fusion via 2D-2D registration. In Proceedings of the IEEE Winter Conference on Applications of Computer Vision, Lake Placid, USA, March 2016. Accepted for publication

2015


2014

• L Kneip, H Li, and Y Seo. UPnP: An optimal O(n) solution to the absolute pose problem with universal applicability. In Proceedings of the European Conference on Computer Vision (ECCV), Zurich, Switzerland, September 2014

• L Kneip and H Li. Efficient computation of relative pose for multi-camera systems. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Columbus, USA, June 2014


2013


2012


2011


- L Kneip, M Chli, and R Siegwart. Robust real-time visual odometry with a single camera and an IMU. In Proceedings of the British Machine Vision Conference (BMVC), Dundee, Scotland, August 2011a [Video]


2010


2009


Contributions to books


Other publications


Thesis