2023
Conference and Workshop Papers
[C1] L Sang, B Haefner, X Zuo and D Cremers,
High-Quality RGB-D Reconstruction via Multi-View Uncalibrated Photometric Stereo and Gradient-SDF,
IEEE Winter Conference on Applications of Computer Vision (WACV), Hawaii, USA, January 2023.

2022
Journal Articles
[J1] M Brahimi, B Haefner, T Yenamandra, B Goldluecke and D Cremers,
SupeRVol: Super-Resolution Shape and Reflectance Estimation in Inverse Volume Rendering,

2021
Conference and Workshop Papers
[C1] B. Haefner, S. Green, A. Oursland, D. Andersen, M. Goesele, D. Cremers, R. Newcombe and T. Whelan,
Recovering Real-world Reflectance Properties and Shading from HDR Imagery,

2020
Journal Articles
[J1] B. Haefner, S. Peng, A. Verma, Y. Queau and D. Cremers,
Photometric Depth Super-Resolution,

Conference and Workshop Papers
[C1] L. Sang, B. Haefner and D. Cremers,
Inferring Super-Resolution Depth from a Moving Light-Source Enhanced RGB-D Sensor: A Variational Approach,
IEEE Winter Conference on Applications of Computer Vision (WACV), Colorado, USA, March 2020, Spotlight Presentation.

2019
Conference and Workshop Papers
[C1] B. Haefner, Y. Queau and D. Cremers,
Photometric Segmentation: Simultaneous Photometric Stereo and Masking,
International Conference on 3D Vision (3DV), Quebec City, Canada, September 2019, Spotlight Presentation.
[C2] B. Haefner, Z. Ye, M. Gao, T. Wu, Y. Queau and D. Cremers,
Variational Uncalibrated Photometric Stereo under General Lighting,
IEEE/CVF International Conference on Computer Vision (ICCV), Seoul, South Korea, October 2019.
Keywords: Photometry  

List of Publications

2018  
Conference and Workshop Papers

[C1] B. Haefner, Y. Queau, T. Möllenhoff and D. Cremers,  
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,  

2017  
Conference and Workshop Papers

[C1] S. Peng, B. Haefner, Y. Queau and D. Cremers,  
Depth Super-Resolution Meets Uncalibrated Photometric Stereo,  
*IEEE International Conference on Computer Vision Workshops (ICCVW)*, 2017, Oral Presentation at ICCV Workshop on Color and Photometry in Computer Vision.