

Journal Articles

- [J1] S. Roy, A.T.D. Gruenwald, A. Alves-Pinto, R. Maier, D. Cremers, D. Pfeiffer and R. Lampe,
A Non-invasive 3D Body Scanner and Software Tool towards Analysis of Scoliosis,
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- [J2] K. Kolev, T. Brox and D. Cremers,
Fast Joint Estimation of Silhouettes and Dense 3D Geometry from Multiple Images,
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- [J3] D. Cremers and K. Kolev,
Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains,
33(6): 1161-1174, 2011.
- [J4] K. Kolev, N. Kirchgessner, S. Houben, A. Csiszar, W. Rubner, C. Palm, B. Eiben, R. Merkel and D. Cremers,
A Variational Approach to Vesicle Membrane Reconstruction from Fluorescence Imaging,
Pattern Recognition, 44: 2944-2958, 2011.
- [J5] K. Kolev, M. Klodt, T. Brox and D. Cremers,
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84(1): 80-96, August 2009.
- [J6] B. Goldluecke, I. Ihrke, C. Linz and M. Magnor,
Weighted Minimal Hypersurface Reconstruction,
29(7): 1194-1208, July 2007.

Book Chapters

- [BC1] D. Cremers, T. Pock, K. Kolev and A. Chambolle,
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Conference and Workshop Papers

- [C1] E. Bylow, R. Maier, F. Kahl and C. Olsson,
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Scandinavian Conference on Image Analysis (SCIA), Norrköping, Sweden, June 2019,
Oral Presentation, received the SCIA 2019 Honourable Mention award.
- [C2] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
Fight ill-posedness with ill-posedness: Single-shot variational depth super-resolution from shading,
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018, **Spotlight Presentation.**

- [C3] M. Dzitsiuk, J. Sturm, R. Maier, L. Ma and D. Cremers,
De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using Plane Priors,
International Conference on Robotics and Automation (ICRA), May 2017.
- [C4] R. Maier, R. Schaller and D. Cremers,
Efficient Online Surface Correction for Real-time Large-Scale 3D Reconstruction,
British Machine Vision Conference (BMVC), London, United Kingdom, September 2017.
- [C5] Peng, S., Haefner, B., Queau, Y., Cremers and D.,
Depth Super-Resolution Meets Uncalibrated Photometric Stereo,
International Conference on Computer Vision Workshops (ICCVW), 2017, **Oral Presentation at ICCV Workshop on Color and Photometry in Computer Vision.**
- [C6] F. Steinbruecker, J. Sturm and D. Cremers,
Volumetric 3D Mapping in Real-Time on a CPU,
Hongkong, China, 2014.
- [C7] T. Gurdan, M. R. Oswald, D. Gurdan and D. Cremers,
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- [C8] M. R. Oswald and D. Cremers,
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- [C9] M. R. Oswald, J. Stühmer and D. Cremers,
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- [C10] G. Kuschik and D. Cremers,
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- [C11] M. R. Oswald and D. Cremers,
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- [C12] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,
Large-Scale Multi-Resolution Surface Reconstruction from RGB-D Sequences,
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- [C13] M. Aubry, K. Kolev, B. Goldluecke and D. Cremers,
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- [C14] J. Stühmer, S. Gumhold and D. Cremers,
Real-Time Dense Geometry from a Handheld Camera,
Darmstadt, Germany, 11-20, September 2010.

- [C15] J. Stühmer, S. Gumhold and D. Cremers,
Parallel Generalized Thresholding Scheme for Live Dense Geometry from a Handheld Camera,
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- [C16] B. Goldluecke and D. Cremers,
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- [C21] B. Goldluecke and M. Magnor,
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