Author: D. Cremers

List of Publications

Journal Articles

[J1] Thomas Frerix, Matthias Niesner and Daniel Cremers,
Linear Inequality Constraints for Neural Network Activations,

[J2] J. Engel, V. Koltun and D. Cremers,
Direct Sparse Odometry,
March 2018.

[J3] N. Yang, R. Wang, X. Gao and D. Cremers,
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[J5] Haefner, B., Peng, S., Verma, A., Queau, Y., Cremers and D.,
Photometric Depth Super-Resolution,

[J6] Melou, J., Queau, Y., Durou, J.-D., Castan, F., Cremers and D.,
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[J7] P. Bergmann, R. Wang and D. Cremers,
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[J8] E. Aljalbout, V. Golkov, Y. Siddiqui and D. Cremers,
Clustering with Deep Learning: Taxonomy and New Methods,

[J9] A. Vasilev, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
q-Space Novelty Detection with Variational Autoencoders,

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[J11] L. Ma., J. Stueckler, T. Wu and D. Cremers,
Detailed Dense Inference with Convolutional Neural Networks via Discrete Wavelet Transform,
Aug 2018.
[J12] Tjaden, Henning, Schwanecke, Ulrich, Schömer, Elmar, Cremers and Daniel, 
A Region-based Gauss-Newton Approach to Real-Time Monocular Multiple 
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and D. Cremers, 
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[J14] Krieg, Michael, Stühmer, Jan, Cueva, Juan G, Fetter, Richard, Spilker, Kerri, Cremers, 
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[J15] J. Kukacka, V. Golkov and D. Cremers, 
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[J16] E. Rodola, L. Cosmo, M. M. Bronstein, A. Torsello and D. Cremers, 
Partial Functional Correspondence, 

[J17] L. Cosmo, E. Rodola, A. Albarelli, F. Memoli and D. Cremers, 
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[J18] D. Boscaini, J. Masci, E. Rodola, M. M. Bronstein and D. Cremers, 
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[J19] V. Golkov, A. Dosovitskiy, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann, T. Brox and 
D. Cremers, 
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[J20] O. Litany, E. Rodola, A. M. Bronstein, M. M. Bronstein and D. Cremers, 
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[J21] Vestner, M., Litman, R., Bronstein, A., Rodola, E., Cremers and D., 
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The Role of Diffusion in Figure Hunt Games, 
[J24] S. Madhogaria, P. M. Baggenstoss, M. Schikora, W. Koch and D. Cremers, 
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[J25] M. Klodt, K. Herzog, R. Töpfer and D. Cremers, 
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[J26] E. Rodola, A. Albarelli, D. Cremers and A. Torsello, 
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[J27] R. Mecca, E. Rodola and D. Cremers, 
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[J28] T. Möllenhoff, E. Strekalovskiy, M. Möller and D. Cremers, 
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[J29] B. Goldluecke, M. Aubry, K. Kolev and D. Cremers, 
A Super-resolution Framework for High-Accuracy Multiview Reconstruction, 

[J30] E. Strekalovskiy, A. Chambolle and D. Cremers, 
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[J31] J. Engel, J. Sturm and D. Cremers, 
Scale-Aware Navigation of a Low-Cost Quadrocopter with a Monocular Camera, 

[J32] E. Rodola, S. Rota Bulo and D. Cremers, 
Robust Region Detection via Consensus Segmentation of Deformable Shapes, 

[J33] C. Nieuwenhuis and D. Cremers, 
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[J34] C. Nieuwenhuis, E. Toeppe and D. Cremers, 
A Survey and Comparison of Discrete and Continuous Multi-label Optimization Approaches for the Potts Model, 

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Tight Convex Relaxations for Vector-Valued Labeling, 

[J36] F. Endres, J. Hess, J. Sturm, D. Cremers and W. Burgard, 
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[J37] Liu, Z., Beetz, M., Cremers, D., Gall, J., Li, W., Pangercic, D., Sturm, J., Tai and Y.-W.,
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[J38] A. Chambolle, D. Cremers and T. Pock,
A Convex Approach to Minimal Partitions,

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vving curvature penalization,

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[J43] B. Goldluecke, E. Strekalovskiy and D. Cremers,
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[J47] T. Windheuser, U. Schlickewei, F. R. Schmidt and D. Cremers,
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A Combinatorial Solution for Model-based Image Segmentation and Real-time 
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Mumford-Shah functional, 

[J56] T. Brox, B. Rosenhahn, J. Gall and D. Cremers, 
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[J57] K. Kolev, M. Klodt, T. Brox and D. Cremers, 
Continuous Global Optimization in Multiview 3D Reconstruction, 

[J58] A. Wedel, C. Rabe, H. Badino, H. Loose, U. Franke and D. Cremers, 
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Computer Lernen Sehen,


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[BC1] Vestner, M., Rodola, E., Windheuser, T., Bulo, Rota Bulo, S., Cremers and D.,
Applying Random Forests to the Problem of Dense Non-rigid Shape Correspondence,

[BC2] V. Golkov, J. M. Portegies, A. Golkov, R. Duits and D. Cremers,
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Computational Diffusion MRI, Springer, 2014, Book Chapter, and Oral Presentation at MICCAI 2014 Workshop on Computational Diffusion MRI.

[BC4] M. Klodt, F. Steinbruecker and D. Cremers,
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[BC5] M. Schikora, W. Koch, R. L. Streit and D. Cremers,
A Sequential Monte Carlo Method for Multi-Target Tracking with the Intensity Filter,

[BC6] D. Cremers, T. Pock, K. Kolev and A. Chambolle,
Convex Relaxation Techniques for Segmentation, Stereo and Multiview Reconstruction,
Author: D. Cremers

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[BC7] D. Cremers,
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[BC8] A. Chambolle, V. Caselles, D. Cremers, M. Novaga and T. Pock,
An Introduction to Total Variation for Image Analysis,

[BC9] T. Brox, B. Rosenhahn and D. Cremers,
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[BC10] D. Cremers and M. Rousson,
Efficient kernel density estimation of shape and intensity priors for level set segmentation,

[BC11] D. Cremers and T. Kohlberger,
Probabilistic kernel PCA and its application to statistical shape modeling and inference,

[BC12] S. Manay, D. Cremers, B. W. Hong, A. Yezzi and S. Soatto,
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Variational segmentation with shape priors,

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[C1] P. Swazinna, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
Negative-Unlabeled Learning for Diffusion MRI,
2019.

[C2] Caner Hazirbas, Sebastian Georg Soyer, Maximilian Christian Staab, Laura Leal-Taixe and Daniel Cremers,

[C3] T. Möllenhoff, Z. Ye, T. Wu and D. Cremers,
Combinatorial Preconditioners for Proximal Algorithms on Graphs,
*International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2018.

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[C17] D. Schubert, N. Demmel, V. Usenko, J. Stueckler and D. Cremers,
Direct Sparse Odometry With Rolling Shutter,
September 2018, Oral Presentation.

[C18] V. Usenko, N. Demmel and D. Cremers,
The Double Sphere Camera Model,

[C19] I. Chiotellis, F. Zimmermann, D. Cremers and R. Triebel,
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[C20] V. Estellers, F. Schmidt and D. Cremers,
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[C21] P. Wenzel, Q. Khan, D. Cremers and L. Leal-Taixe,
Modular Vehicle Control for Transferring Semantic Information Between Weather Conditions Using GANs,
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[C22] Haefner, B., Queau, Y., Möllenhoff, T., Cremers and D.,
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[C25] L. Ma, J. Stueckler, C. Kerl and D. Cremers,
Multi-View Deep Learning for Consistent Semantic Mapping with RGB-D Cameras,
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[C26] Vestner, M., Litman, R., Rodola, E., Bronstein, A., Cremers and D.,
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[C27] Dzitsiuk, M., Sturm, J., Maier, R., Ma, L., Cremers and D.,
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Author: D. Cremers

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[C28] L. von Stumberg, V. Usenko, J. Engel, J. Stueckler and D. Cremers,
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[C29] Florian Walch, Caner Hazirbas, Laura Leal-Taixe, Torsten Sattler, Sebastian Hilsenbeck
and Daniel Cremers,
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[C33] Miroslava Slavcheva, Maximilian Baust, Daniel Cremers and Slobodan Ilic,
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[C50] Peng, S., Haefner, B., Queau, Y., Cremers and D., 
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T. Möllenhoff, E. Laude, M. Moeller, J. Lellmann and D. Cremers, Sublabel-Accurate Relaxation of Nonconvex Energies, 2016, Oral Presentation, Received the Best Paper Honorable Mention Award at CVPR 2016.


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[C75] D. Mund, R. Triebel and D. Cremers,
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[C79] J. Engel, J. Stueckler and D. Cremers,  
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[C80] D. Caruso, J. Engel and D. Cremers,  
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[C81] Y. Tao, R. Triebel and D. Cremers,  
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[C106] E. Strekalovskiy and D. Cremers,
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[C111] S. Debnath, S. S. Baishya, R. Triebel, V. Dutt and D. Cremers,
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[C112] A. Kanezaki, E. Rodola, D. Cremers and T. Harada, 
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[C113] D. Bender, M. Schikora, J. Sturm and D. Cremers, 
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