2021

Conference and Workshop Papers

[C1] T Yenamandra, A Tewari, F Bernard, HP Seidel, M Elgharib, D Cremers and C Theobalt,
**i3DMM: Deep Implicit 3D Morphable Model of Human Heads,**
*Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2021, **Oral Presentation.**

[C2] M Gao, Z Lähner, J Thunberg, D Cremers and F Bernard,
**Isometric Multi-Shape Matching,**
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021, **Oral Presentation.**

2020

Journal Articles

[J1] C. Sommer, Y. Sun, L. J. Guibas, D. Cremers and T. Birdal,
**From Planes to Corners: Multi-Purpose Primitive Detection in Unorganized 3D Point Clouds,**

Conference and Workshop Papers

[C1] M. Eisenberger, Z. Lähner and D. Cremers,
**Smooth Shells: Multi-Scale Shape Registration with Functional Maps,**
*IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020, **Oral Presentation.**

[C2] M. Eisenberger and D. Cremers,
**Hamiltonian Dynamics for Real-World Shape Interpolation,**
*European Conference on Computer Vision (ECCV)*, 2020, **Spotlight Presentation.**

[C3] S. Weiss, R. Maier, D. Cremers, R. Westermann and N. Thuerey,
**Correspondence-Free Material Reconstruction using Sparse Surface Constraints,**
*IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

[C4] C. Sommer, Y. Sun, E. Bylow and D. Cremers,
**PrimiTect: Fast Continuous Hough Voting for Primitive Detection,**

[C5] B Holzschuh, Z Lähner and D Cremers,
**Simulated Annealing for 3D Shape Correspondence,**
*International Conference on 3D Vision (3DV)*, 2020, **Oral Presentation.**

[C6] M Aygün, Z Lähner and D Cremers,
**Unsupervised Dense Shape Correspondence using Heat Kernels,**
Keywords: Geometry Processing

List of Publications

2019

Journal Articles

[J1] E Rodola, Z Lähner, AM. Bronstein, MM. Bronstein and J Solomon,

Functional Maps Representation on Product Manifolds,


Conference and Workshop Papers


Shape Correspondence with Isometric and Non-Isometric Deformations,
Silvia Biasotti, Guillaume Lavoué and Remco C. Veltkamp(Eds.), *12th Eurographics Workshop on 3D Object Retrieval, 3DOR@Eurographics 2019*, Genoa, Italy, May 5-6, 2019, Eurographics Association, 111-119, 2019.

[C2] M. Eisenberger, Z. Lähner and D. Cremers,

Divergence-Free Shape Correspondence by Deformation,

[C3] S. Weiss, R. Maier, R. Westermann, D. Cremers and N. Thuerey,

Sparse Surface Constraints for Combining Physics-based Elasticity Simulation and Correspondence-Free Object Reconstruction,

2018

Conference and Workshop Papers

[C1] C. Sommer and D. Cremers,

Joint Representation of Primitive and Non-primitive Objects for 3D Vision,

[C2] Z. Lähner, D. Cremers and T. Tung,

DeepWrinkles: Accurate and Realistic Clothing Modeling,

[C3] V. Estellers, F. Schmidt and D. Cremers,

Robust Fitting of Subdivision Surfaces for Smooth Shape Analysis,
*Proc. of the Int. Conference on 3D Vision (3DV)*, September 2018, *Received the Best Paper Award at 3DV 2018*.

2017

Journal Articles

[J1] E Rodola, M Möller and D Cremers,

Regularized Pointwise Map Recovery from Functional Correspondence,

Conference and Workshop Papers
Keywords: Geometry Processing

List of Publications


2016

Book Chapters


Conference and Workshop Papers


2015

Journal Articles

2013
Journal Articles

[J1] E. Rodola, A. Albarelli, F. Bergamasco and A. Torsello,
A Scale Independent Selection Process for 3D Object Recognition in Cluttered Scenes,

[J2] A. Torsello, A. Albarelli and E. Rodola,
Stable and Fast Techniques for Unambiguous Compound Phase Coding,