

Carsten Rother

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

9,658
citations

471509

17
h-index

752698

20
g-index

40
all docs

40
docs citations

40
times ranked

6585
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Fusion Moves for Graph Matching. , 2021, , . | | 3 |
| 2 | Intrinsic Autoencoders for Joint Deferred Neural Rendering and Intrinsic Image Decomposition. , 2020, , . | | 2 |
| 3 | Geometric Image Synthesis. Lecture Notes in Computer Science, 2019, , 85-100. | 1.3 | 9 |
| 4 | Neural-Guided RANSAC: Learning Where to Sample Model Hypotheses. , 2019, , . | | 160 |
| 5 | Augmented Reality Meets Computer Vision: Efficient Data Generation for Urban Driving Scenes. International Journal of Computer Vision, 2018, 126, 961-972. | 15.6 | 258 |
| 6 | MPLP++: Fast, Parallel Dual Block-Coordinate Ascent for Dense Graphical Models. Lecture Notes in Computer Science, 2018, , 264-281. | 1.3 | 7 |
| 7 | Analyzing modular CNN architectures for joint depth prediction and semantic segmentation. , 2017, , . | | 41 |
| 8 | Detecting unexpected obstacles for self-driving cars: Fusing deep learning and geometric modeling. , 2017, , . | | 94 |
| 9 | Crowd sourcing image segmentation with iaSTAPLE. , 2017, , . | | 6 |
| 10 | Joint Graph Decomposition & Node Labeling: Problem, Algorithms, Applications. , 2017, , . | | 78 |
| 11 | A Study of Lagrangean Decompositions and Dual Ascent Solvers for Graph Matching. , 2017, , . | | 24 |
| 12 | Bounding Boxes, Segmentations and Object Coordinates: How Important is Recognition for 3D Scene Flow Estimation in Autonomous Driving Scenarios?. , 2017, , . | | 94 |
| 13 | Inferring M-Best Diverse Labelings in a Single One. , 2015, , . | | 15 |
| 14 | A Comparative Study of Modern Inference Techniques for Structured Discrete Energy Minimization Problems. International Journal of Computer Vision, 2015, 115, 155-184. | 15.6 | 125 |
| 15 | Dense Semantic Image Segmentation with Objects and Attributes. , 2014, , . | | 43 |
| 16 | PMBP: PatchMatch Belief Propagation for Correspondence Field Estimation. International Journal of Computer Vision, 2014, 110, 2-13. | 15.6 | 130 |
| 17 | A Dual Decomposition Approach to Feature Correspondence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 259-271. | 13.9 | 74 |
| 18 | A Comparative Study of Modern Inference Techniques for Discrete Energy Minimization Problems. , 2013, , . | | 107 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Decision tree fields. , 2011, , . | | 77 |
| 20 | A global sampling method for alpha matting. , 2011, , . | | 219 |
| 21 | Object stereo — Joint stereo matching and object segmentation. , 2011, , . | | 115 |
| 22 | Transforming Image Completion. , 2011, , . | | 29 |
| 23 | PatchMatch Stereo - Stereo Matching with Slanted Support Windows. , 2011, , . | | 424 |
| 24 | Geodesic image and video editing. ACM Transactions on Graphics, 2010, 29, 1-15. | 7.2 | 143 |
| 25 | Fusion Moves for Markov Random Field Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1392-1405. | 13.9 | 166 |
| 26 | Scene Carving: Scene Consistent Image Retargeting. Lecture Notes in Computer Science, 2010, , 143-156. | 1.3 | 43 |
| 27 | Minimizing sparse higher order energy functions of discrete variables. , 2009, , . | | 104 |
| 28 | TextronBoost for Image Understanding: Multi-Class Object Recognition and Segmentation by Jointly Modeling Texture, Layout, and Context. International Journal of Computer Vision, 2009, 81, 2-23. | 15.6 | 914 |
| 29 | Discrete-Continuous Optimization for Optical Flow Estimation. Lecture Notes in Computer Science, 2009, , 1-22. | 1.3 | 11 |
| 30 | A Comparative Study of Energy Minimization Methods for Markov Random Fields with Smoothness-Based Priors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1068-1080. | 13.9 | 786 |
| 31 | FusionFlow: Discrete-continuous optimization for optical flow estimation. , 2008, , . | | 110 |
| 32 | Optimizing Binary MRFs via Extended Roof Duality. , 2007, , . | | 299 |
| 33 | Minimizing Nonsubmodular Functions with Graph Cuts-A Review. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1274-1279. | 13.9 | 276 |
| 34 | Probabilistic fusion of stereo with color and contrast for bilayer segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1480-1492. | 13.9 | 74 |
| 35 | AutoCollage. ACM Transactions on Graphics, 2006, 25, 847-852. | 7.2 | 129 |
| 36 | Comparison of Energy Minimization Algorithms for Highly Connected Graphs. Lecture Notes in Computer Science, 2006, , 1-15. | 1.3 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | "GrabCut". ACM Transactions on Graphics, 2004, 23, 309-314. | 7.2 | 4,173 |
| 38 | A new approach to vanishing point detection in architectural environments. Image and Vision Computing, 2002, 20, 647-655. | 4.5 | 189 |
| 39 | Linear Multi View Reconstruction and Camera Recovery Using a Reference Plane. International Journal of Computer Vision, 2002, 49, 117-141. | 15.6 | 53 |