Journal Articles

[J1] J. Engel, J. Sturm and D. Cremers,
Scale-Aware Navigation of a Low-Cost Quadrocopter with a Monocular Camera,

[J2] F. Endres, J. Hess, J. Sturm, D. Cremers and W. Burgard,
3D Mapping with an RGB-D Camera,

[J3] Liu, Z., Beetz, M., Cremers, D., Gall, J., Li, W., Pangercic, D., Sturm, J., Tai and Y.-W.,
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[J4] S. Chitta, J. Sturm, M. Piccoli and W. Burgard,
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[J5] J. Sturm, C. Stachniss and W. Burgard,
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[J6] J. Sturm, C. Plagemann and W. Burgard,
Body schema learning for robotic manipulators from visual self-perception,

Books

[B1] J. Sturm,
Approaches to Probabilistic Model Learning for Mobile Manipulation Robots,
Springer 2013.

Book Chapters

[BC1] Sturm, J., Plagemann, C., Burgard and W.,
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Conference and Workshop Papers

[C1] M. Dzitsiuk, J. Sturm, R. Maier, L. Ma and D. Cremers,
De-noising, Stabilizing and Completing 3D Reconstructions On-the-go using Plane Priors,
Author: J. Sturm

List of Publications

[C2] F. Steinbruecker, J. Sturm and D. Cremers, 
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Hongkong, China, 2014.

[C3] H. Alvarez, L.M. Paz, J. Sturm and D. Cremers, 
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[C4] R. Maier, J. Sturm and D. Cremers, 
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[C5] O. Dunkley, J. Engel, J. Sturm and D. Cremers, 
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[C6] D. Bender, M. Schikora, J. Sturm and D. Cremers, 
INS-Camera Calibration without Ground Control Points, 
9th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF), 2014.

[C7] C. Kerl, M. Souiai, J. Sturm and D. Cremers, 
Towards Illumination-invariant 3D Reconstruction using ToF RGB-D Cameras, 
International Conference on 3D Vision (3DV), 2014.

[C8] C. Kerl, J. Sturm and D. Cremers, 
Robust Odometry Estimation for RGB-D Cameras, 
May 2013, Best Vision Paper Award - Finalist.

[C9] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers, 
Real-Time Camera Tracking and 3D Reconstruction Using Signed Distance Functions, 

[C10] E. Bylow, J. Sturm, C. Kerl, F. Kahl and D. Cremers, 
Direct Camera Pose Tracking and Mapping With Signed Distance Functions, 
Demo Track of the RGB-D Workshop on Advanced Reasoning with Depth Cameras at the Robotics: Science and Systems Conference (RSS), June 2013.

[C11] J. Sturm and W. Burgard, 
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[C13] T. Naseer, J. Sturm and D. Cremers, 
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[C14] M. Klodt, J. Sturm and D. Cremers,  
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[C15] J. Sturm, E. Bylow, F. Kahl and D. Cremers,  
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*Unmanned Aerial Vehicle in Geomatics (UAV-g)*, Rostock, Germany, September 2013.

[C16] D. Bender, M. Schikora, J. Sturm and D. Cremers,  
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*Unmanned Aerial Vehicle in Geomatics (UAV-g)*, Rostock, Germany, September 2013,  
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[C17] J. Sturm, E. Bylow, F. Kahl and D. Cremers,  
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[C18] J. Engel, J. Sturm and D. Cremers,  
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Sydney, Australia, December 2013.

[C19] F. Steinbruecker, C. Kerl, J. Sturm and D. Cremers,  
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[C21] F. Endres, J. Hess, N. Engelhard, J. Sturm, D. Cremers and W. Burgard,  
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[C22] T. Ruehr, J. Sturm, D. Pangeric, M. Beetz and D. Cremers,  
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[C23] L. Zhang, J. Sturm, D. Cremers and D. Lee,  
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[C24] J. Engel, J. Sturm and D. Cremers,  
Camera-Based Navigation of a Low-Cost Quadrocopter,  

[C25] J. Sturm, N. Engelhard, F. Endres, W. Burgard and D. Cremers,  
A Benchmark for the Evaluation of RGB-D SLAM Systems,  
[C26] J. Engel, J. Sturm and D. Cremers,
Accurate Figure Flying with a Quadrocopter Using Onboard Visual and Inertial Sensing,

[C27] J. Sturm, W. Burgard and D. Cremers,
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[C28] J. Hess, J. Sturm and W. Burgard,
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[C35] S. Chitta, M. Piccoli and J. Sturm,
Tactile Object Class and Internal State Recognition for Mobile Manipulation,


Author: J. Sturm

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[C48] A. Visser, J. Sturm and F.C.A. Groen,
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[C49] A. Visser, P. van Rossum, J. Westra, J. Sturm, D. A. van Soest and M. de Greef,
Dutch AIBO Team at RoboCup 2006,

[C50] N. Wijngaards, F. Dignum, P. Jonker, T. de Ridder, A. Visser, S. Leijnen and J. Sturm,
Dutch AIBO Team at RoboCup 2005,

PhDThesis

[PhD1] J. Sturm,
Approaches to Probabilistic Model Learning for Mobile Manipulation Robots,
University of Freiburg, Germany, May 2011, Received the Artificial Intelligence Dissertation Award 2011 (ECCAI) and the Wolfgang-Genter-Award 2011 (University of Freiburg); Finalist at the Georges-Giralt-Award 2012 (EURON); Selected for the Best Paper Track at IJCAI 2013.

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[M1] J. Sturm,
An appearance-based Visual Compass for Mobile Robots,
University of Amsterdam, the Netherlands, Dec. 2006.

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[R1] A. Visser, J. Sturm, P. van Rossum, J. Westra and T. Bink,
Dutch Aibo Team: Technical Report RoboCup 2006,

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