# List of Publications

## Journal Articles

[J1] T. Brox, B. Rosenhahn, J. Gall and D. Cremers,  
*Combined region- and motion-based 3D tracking of rigid and articulated objects,*  

[J2] B. Rosenhahn, T. Brox and J. Weickert,  
*Three-dimensional shape knowledge for joint image segmentation and pose tracking,*  

## Book Chapters

[BC1] T. Brox, B. Rosenhahn and D. Cremers,  
*Contours, optic flow, and prior knowledge: cues for capturing 3D human motion in videos,*  

## Conference and Workshop Papers

[C1] M. Jaimez, T. J. Cashman, A. Fitzgibbon, J. Gonzalez-Jimenez and D. Cremers,  
*An Efficient Background Term for 3D Reconstruction and Tracking with Smooth Subdivision Surface Models,*  

*Model-Based Tracking at 300Hz using Raw Time-of-Flight Observations,*  
*IEEE International Conference on Computer Vision (ICCV)*, Santiago, Chile, 2015.

*Markerless Motion Capture of Man-Machine Interaction,*  

[C4] B. Rosenhahn, T. Brox, D. Cremers and H.-P. Seidel,  
*Modeling and Tracking Line-Constrained Mechanical Systems,*  

[C5] T. Brox, B. Rosenhahn, D. Cremers and H.-P. Seidel,  
*Nonparametric density estimation with adaptive anisotropic kernels for human motion tracking,*  

*Occlusion Modeling by Tracking Multiple Objects,*  
[C7] B. Rosenhahn, T. Brox, D. Cremers and H.-P. Seidel,
*Online smoothing for markerless motion capture,*

[C8] B. Rosenhahn, T. Brox and H.-P. Seidel,
*Scaled motion dynamics for markerless motion capture,*

[C9] C. Schmaltz, B. Rosenhahn, T. Brox, D. Cremers, J. Weickert, L. Wietzke and G. Sommer,
*Region-based Pose Tracking,*

[C10] T. Brox, B. Rosenhahn, U. Kersting and D. Cremers,
*Nonparametric density estimation for human pose tracking,*

[C11] T. Brox, B. Rosenhahn, D. Cremers and H.-P. Seidel,
*High accuracy optical flow serves 3-D pose tracking: exploiting contour and flow based constraints,*