Dr. Nico Blodow

List of Publications


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[J1] Zoltan Csaba Marton, Dejan Pangercic, Nico Blodow and Michael Beetz, 
Combined 2D-3D Categorization and Classification for Multimodal Perception Systems, 

[C1] Nico Blodow, Zoltan-Csaba Marton, Dejan Pangercic, Thomas Rühr, Moritz Tenorth and Michael Beetz, 
Inferring Generalized Pick-and-Place Tasks from Pointing Gestures, 

[C2] Nico Blodow, Lucian Cosmin Goron, Zoltan-Csaba Marton, Dejan Pangercic, Thomas Rühr, Moritz Tenorth and Michael Beetz, 
Autonomous Semantic Mapping for Robots Performing Everyday Manipulation Tasks in Kitchen Environments, 

[C3] Zoltan-Csaba Marton, Nico Blodow and Michael Beetz, 
Advantages of Spatial-temporal Object Maps for Service Robotics, 
IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO), Half-Moon Bay, CA, USA, October 2-4 2011.

[C4] Aitor Aldoma, Markus Vincze, Nico Blodow, David Gossow, Suat Gedikli, Radu Bogdan Rusu and Gary R. Bradski, 
CAD-model recognition and 6DOF pose estimation using 3D cues, 

[C1] Nico Blodow, Zoltan-Csaba Marton, Dejan Pangercic and Michael Beetz, 
Making Sense of 3D Data, 

[C2] Zoltan-Csaba Marton, Dejan Pangercic, Nico Blodow, Jonathan Kleinehellefort and Michael Beetz, 
General 3D Modelling of Novel Objects from a Single View, 

[C3] Nico Blodow, Dominik Jain, Zoltan-Csaba Marton and Michael Beetz, 
Perception and Probabilistic Anchoring for Dynamic World State Logging, 
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[C1] Radu Bogdan Rusu, Zoltan Csaba Marton, Nico Blodow, Andreas Holzbach and Michael Beetz,
Model-based and Learned Semantic Object Labeling in 3D Point Cloud Maps
of Kitchen Environments,

[C2] Radu Bogdan Rusu, Nico Blodow, Zoltan Csaba Marton and Michael Beetz,
Close-range Scene Segmentation and Reconstruction of 3D Point Cloud Maps
for Mobile Manipulation in Human Environments,

[C3] Radu Bogdan Rusu, Andreas Holzbach, Nico Blodow and Michael Beetz,
Fast Geometric Point Labeling using Conditional Random Fields,

[C4] Radu Bogdan Rusu, Nico Blodow and Michael Beetz,
Fast Point Feature Histograms (FFFH) for 3D Registration,
Proceedings of the IEEE International Conference on Robotics and Automation (ICRA),
Kobe, Japan, May 12-17, 2009.

[C5] Nico Blodow, Radu Bogdan Rusu, Zoltan Csaba Marton and Michael Beetz,
Partial View Modeling and Validation in 3D Laser Scans for Grasping,
9th IEEE-RAS International Conference on Humanoid Robots (Humanoids), Paris, France,
December 7-10 2009.

[C6] Michael Beetz, Nico Blodow, Ulrich Klank, Zoltan Csaba Marton, Dejan Pangeric and
Radu Bogdan Rusu,
CoP-Man – Perception for Mobile Pick-and-Place in Human Living Environments,
Proceedings of the 22nd IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) Workshop on Semantic Perception for Mobile Manipulation, St. Louis,
MO, USA, October 11-15 2009.

[J1] Radu Bogdan Rusu, Zoltan Csaba Marton, Nico Blodow, Mihai Dolha and Michael Beetz,
Towards 3D Point Cloud Based Object Maps for Household Environments,

[C1] Zoltan Csaba Marton, Nico Blodow, Mihai Dolha, Moritz Tenorth, Radu Bogdan Rusu
and Michael Beetz,
Autonomous Mapping of Kitchen Environments and Applications,
Proceedings of the 1st International Workshop on Cognition for Technical Systems, Munich,
Germany, 6-8 October, 2008.

[C2] Radu Bogdan Rusu, Zoltan Csaba Marton, Nico Blodow and Michael Beetz,
Interpretation of Urban Scenes based on Geometric Features,
[C3] Radu Bogdan Rusu, Zoltan Csaba Marton, Nico Blodow and Michael Beetz,
Learning Informative Point Classes for the Acquisition of Object Model Maps,
Proceedings of the 10th International Conference on Control, Automation, Robotics and

The Assistive Kitchen – A Demonstration Scenario for Cognitive Technical Systems,
IEEE 17th International Symposium on Robot and Human Interactive Communication
(RO-MAN), Muenchen, Germany, 1-8, 2008.

[C5] Radu Bogdan Rusu, Jan Bandouch, Zoltan Csaba Marton, Nico Blodow and Michael
Beetz,
Action Recognition in Intelligent Environments using Point Cloud Features
Extracted from Silhouette Sequences,
IEEE 17th International Symposium on Robot and Human Interactive Communication
(RO-MAN), Muenchen, Germany, 2008.

[C6] Radu Bogdan Rusu, Zoltan Csaba Marton, Nico Blodow and Michael Beetz,
Persistent Point Feature Histograms for 3D Point Clouds,
Proceedings of the 10th International Conference on Intelligent Autonomous Systems (IAS-
10), Baden-Baden, Germany, 2008.

[C7] Radu Bogdan Rusu, Zoltan Csaba Marton, Nico Blodow, Mihai Emanuel Dolha and Mi-
chael Beetz,
Functional Object Mapping of Kitchen Environments,
Proceedings of the 21st IEEE/RSJ International Conference on Intelligent Robots and

[C8] Radu Bogdan Rusu, Nico Blodow, Zoltan Csaba Marton and Michael Beetz,
Aligning Point Cloud Views using Persistent Feature Histograms,
Proceedings of the 21st IEEE/RSJ International Conference on Intelligent Robots and

[C1] Radu Bogdan Rusu, Nico Blodow, Zoltan-Csaba Marton, Alina Soos and Michael Beetz,
Towards 3D Object Maps for Autonomous Household Robots,
Proceedings of the 20th IEEE International Conference on Intelligent Robots and Systems
(IROS), San Diego, CA, USA, 2007.