Zoltan-Csaba Marton  

**List of Publications**

[C1] Michael Beetz, Ferenc Balint-Benczedi, Nico Blodow, Daniel Nyga, Thiemo Wiedemeyer and Zoltan-Csaba Marton,  

*RoboSherlock: Unstructured Information Processing for Robot Perception*,  

[J1] Marton, Zoltan-Csaba, Balint-Benczedi, Ferenc, Mozos, Oscar Martinez, Blodow, Nico, Kanezaki, Asako, Goron, Lucian Cosmin, Pangercic, Dejan, Beetz and Michael,  

*Part-Based Geometric Categorization and Object Reconstruction in Cluttered Table-Top Scenes*,  

[C1] Karol Hausman, Ferenc Balint-Benczedi, Dejan Pangercic, Zoltan-Csaba Marton, Ryohei Ueda, Kei Okada and Michael Beetz,  

*Tracking-based Interactive Segmentation of Textureless Objects*,  

[C2] Kriegel, Simon, Brucker, Manuel, Marton, Zoltan-Csaba, Bodenmuller, Tim, Suppa and Michael,  

*Combining object modeling and recognition for active scene exploration*,  

[C3] Rink, Christian, Marton, Zoltan-Csaba, Seth, Daniel, Bodenmuller, Tim, Suppa and Michael,  

*Feature based particle filter registration of 3D surface models and its application in robotics*,  

[C4] Nissler, Christian, Marton, Zoltan-Csaba, Suppa and Michael,  

*Sample consensus fitting of bivariate polynomials for initializing EM-based modeling of smooth 3D surfaces*,  


*Tutorial: Point Cloud Library: Three-Dimensional Object Recognition and 6 DOF Pose Estimation*,  

[J2] Zoltan-Csaba Marton, Florian Seidel, Ferenc Balint-Benczedi and Michael Beetz,  

*Ensembles of Strong Learners for Multi-cue Classification*,  
*Pattern Recognition Letters (PRL)*, Special Issue on Scene Understandings and Behaviours Analysis, 2012.
[C1] Karol Hausman, Christian Bersch, Dejan Pangercic, Sarah Osentoski, Zoltan-Csaba Marton and Michael Beetz,
Segmentation of Cluttered Scenes through Interactive Perception,

[C2] Ferenc Balint-Benczedi, Zoltan-Csaba Marton and Michael Beetz,
Efficient Part-Graph Hashes for Object Categorization,
5th International Conference on Cognitive Systems (CogSys), 2012.

[C3] Zoltan-Csaba Marton, Ferenc Balint-Benczedi, Florian Seidel, Lucian Cosmin Goron and Michael Beetz,
Object Categorization in Clutter using Additive Features and Hashing of Part-graph Descriptors,
Proceedings of Spatial Cognition (SC), Abbey Kloster Seeon, Germany, 2012.

[C4] Christian Bersch, Dejan Pangercic, Sarah Osentoski, Karol Hausman, Zoltan-Csaba Marton, Ryohei Ueda, Kei Okada and Michael Beetz,
Segmentation of Textured and Textureless Objects through Interactive Perception,

[C5] Lucian Cosmin Goron, Zoltan Csaba Marton, Gheorghe Lazea and Michael Beetz,
Segmenting Cylindrical and Box-like Objects in Cluttered 3D Scenes,
7th German Conference on Robotics (ROBOTIK), Munich, Germany, May 2012.

[C6] Zoltan-Csaba Marton, Florian Seidel and Michael Beetz,
Towards Modular Spatio-temporal Perception for Task-adapting Robots,
Postgraduate Conference on Robotics and Development of Cognition (RobotDoC-PhD),
a satellite event of the 22nd International Conference on Artificial Neural Networks (ICANN), Lausanne, Switzerland, 2012.

[C7] Vladyslav Usenko, Florian Seidel, Zoltan-Csaba Marton and Dejan Pangercic Michael Beetz,
Furniture Classification using WWW CAD Models,
IROS12 Workshop on Active Semantic Perception (ASP12), Vilamoura, Portugal, October 7 2012.

[J1] Oscar Martinez Mozos, Zoltan Csaba Marton and Michael Beetz,
Furniture Models Learned from the WWW – Using Web Catalogs to Locate and Categorize Unknown Furniture Pieces in 3D Laser Scans,

[J2] 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] Asako Kanezaki, Zoltan-Csaba Marton, Dejan Pangercic, Tatsuya Harada, Yasuo Kuniyoshi and Michael Beetz, 
**Voxelized Shape and Color Histograms for RGB-D**, 

[C5] Zoltan-Csaba Marton, Dejan Pangercic and Michael Beetz, 
**Efficient Surface and Feature Estimation in RGBD**, 

[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] Zoltan-Csaba Marton, Dejan Pangercic, Radu Bogdan Rusu, Andreas Holzbach and Michael Beetz, 
**Hierarchical Object Geometric Categorization and Appearance Classification for Mobile Manipulation**, 

[C4] Nico Blodow, Dominik Jain, Zoltan-Csaba Marton and Michael Beetz, 
**Perception and Probabilistic Anchoring for Dynamic World State Logging**, 
[C5] Lucian Cosmin Goron, Zoltan Csaba Marton, Gheorghe Lazea and Michael Beetz,
Automatic Layered 3D Reconstruction of Simplified Object Models for Grasp-
ing,
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[C1] Zoltan Csaba Marton, Radu Bogdan Rusu, Dominik Jain, Ulrich Klank and Michael Beetz,
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posite Sensor,
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[C2] 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,
Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems
(IROS), St. Louis, MO, USA, October 11-15 2009.

[C3] Radu Bogdan Rusu, Nico Blodow, Zoltan Csaba Marton and Michael Beetz,
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[C4] Zoltan Csaba Marton, Radu Bogdan Rusu and Michael Beetz,
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Partial View Modeling and Validation in 3D Laser Scans for Grasping,
9th IEEE-RAS International Conference on Humanoid Robots (Humanoids), Paris, France,
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[C7] 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 Environ-
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Systems (IROS) Workshop on Semantic Perception for Mobile Manipulation, St. Louis,
MO, USA, October 11-15 2009.


[C1] Radu Bogdan Rusu, Nico Blodow, Zoltan-Csaba Marton, Alina Soos and Michael Beetz, 
Towards 3D Object Maps for Autonomous Household Robots, 