

Curriculum Vitae

Oscar Martinez Mozos

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Hasegawa & Morooka Lab,
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Spanish Citizenship

Research Interests

Robotic perception, intelligent sensors, machine learning, and bioengineering, amongst others. I am interested in the application of computer science to different areas such as quality of life technologies, service and assistive robotics, medicine, and industry.

Academic Degrees

- Dr. rer.-nat. (Ph.D.) in Computer Science, University of Freiburg, Germany, 2005–2008.
Dissertation: *Semantic Labeling of Places with Mobile Robots*.
Advisor: Prof. Dr. Wolfram Burgard.
- M.Sc. Applied Computer Science, University of Freiburg, Germany, 2002–2005.
Dissertation: *Supervised Learning of Places from Range Data Using AdaBoost*.
Advisor: Prof. Dr. Wolfram Burgard.
- M.Eng. Computer Science, University of Alicante, Alicante, Spain, 1992–1997.

Employment History

- 10/2010 – Present: JSPS postdoctoral fellow. Laboratory for Intelligent Robots and Vision Systems, Kyushu University, Fukuoka, Japan. Working on service robotics.
- 02/2009 – 09/2010: Researcher. Robotics, Perception and Real Time Group, University of Zaragoza, Zaragoza, Spain. Working on brain computer interfaces.
- 10/2008 – 01/2009: Software developer. Mediterranean Savings Bank (CAM), Alicante, Spain. Working on risk analysis using SAS software.
- 02/2005 – 08/2008: Ph.D. student and researcher. Autonomous Intelligent Systems Group, University of Freiburg, Germany. Working on perception in mobile robotics.
- 06/2000 – 06/2002: Software developer. Mediterranean Savings Bank (CAM), Alicante, Spain. Working on on-line banking.
- 01/1999 – 05/2000: Pre-doctoral fellow. Bioengineering Institute, Miguel Hernandez University, Elche, Spain. Working on bioengineering.
- 07/1998 – 12/1998: Software developer. Torrematica S.L, Alicante, Spain. Working on databases.
- 06/1997 – 06/1998: Internship. Ingenieria de Aplicaciones, S.A (IDASA), Alicante, Spain. Working on databases.

Achievements

- Japan Society for the Promotion of Science (JSPS) postdoctoral fellowship for foreign researchers, 2010.
- Postdoctoral fellowship (Juan de la Cierva) from the Spanish Government, 2009.
- Fellowship from Canon Foundation in Europe, 2008.
- Best student paper award finalist. IEEE International Conference on Robotics and Automation (ICRA), 2005. Paper title: *Supervised learning of places from range data using AdaBoost*.
- Spanish predoctoral fellowship (FPI) from the Spanish Government, 1999.

Participation in Research Projects

- *Strategic Information and Communication R&D Promotion Programme (SCOPE)*. Kyushu University, Japan. Ministry of Internal Affairs and Communications, Japan. Duration: 2012–2015. Position: researcher.
- *Tracing everyday objects in indoor environment for robotic service to daily human life*, November 2010–November 2012. Japan Society for the Promotion of Science (JSPS). Grant-in-Aid for JSPS Fellows. Number 22-00362. Position: Co-principal investigator.
- *Hybrid Neuroprosthetic and Neurobotic Devices for Functional Compensation and Rehabilitation of Motor Disorders (HYPER)*, 2010–2014. Spanish project. Ministerio de Educacin y Ciencia. Consolider Ingenio. Id: CSD2009-00067. Position: researcher.
- *Neuro-control cognitivo de prótesis robóticas y de miembros humanos por estimulación eléctrica funcional para aplicaciones de rehabilitación*, 2009–2011. Spanish national project from Ministerio de Educacion y Ciencia. Id: DPI2009-14732-C02-01. Position: researcher.

- *Cognitive Systems for Cognitive Assistants - CoSy*, February 2005–September 2008. European Union FP6 IST Cognitive Systems Integrated project.
Position: researcher.
- *Sistema de percepción visual móvil y cooperativo como soporte para la realización de tareas con redes de robots*, 2004–2007. Spanish project from Ministerio de Educacion y Ciencia. Id: DPI2007-61197.
Position: researcher.
- *Mecanismos de degeneración, regeneración y reparación en un modelo experimental neurodegenerativo*, June 1999–June 2000. Spanish project from Ministerio de Educacion y Ciencia.
Position: researcher.

Research Stays

- Intelligent Autonomous Systems Lab, Technical University Munich, Germany.
February 2010–July 2010. Host: Professor Michael Beetz.
- Social Robotics Laboratory, University of Freiburg, Germany.
February 2009. Host: Professor Kai O. Arras.
- Laboratory for Intelligent Robots and Vision Systems, Kyushu University, Fukuoka, Japan.
March 2008–May 2008. Hosts: Professor Tsutomu Hasegawa, Professor Ryo Kurazume.
- Visual Cognitive Systems Laboratory, University of Ljubljana, Ljubljana, Slovenia.
November 2005–February 2006. Host: Professor Ales Leonardis.
- Automation, Robotics and Computer Vision Lab, Miguel Hernández University, Alicante, Spain.
December 2006–January 2007. Host: Professor Oscar Reinoso García.
- Centre for Autonomous Systems, Kungl Tekniska Högskolan, Stockholm, Sweden.
September 2005. Host: Professor Henrik I. Christensen.
- Department of Physiology, Medical University of Vienna, Vienna, Austria.
November 1999–December 1999. Host: Professor Peter Ahnelt.

Teaching

- Technical University Munich, Germany
 - Invited lecturer, Summer term 2010. Praktikum: Sensorgestützte intelligente Umgebungen (Intelligent Sensor Environments)
- University of Freiburg, Germany
 - Tutor, Summer term 2007. Seminar: Raumkognition (Spatial Cognition).
 - Tutor, Winter term 2006–2007. Seminar: Robot Navigation.
 - Tutor, Summer term 2006. Seminar: Autonomous Intelligent Systems.
 - Teaching Assistant, Summer term 2006. Lecture: Introduction to Mobile Robotics.
 - Tutor, Winter term 2005–2006. Seminar: Autonomous Mobile Systems.
 - Tutor, Summer term 2005. Seminar: Autonomous Mobile Systems.
- Miguel Hernández University, Spain
 - Lecturer, October–November, 2000. Course: Redes Telematicas Avanzadas (Advanced Networks).

Student Supervision

- Current students
 - Hitoshi Mizutani, M.Sc. student, Kyushu University, Japan (co-supervisor)
 - Hyunuk Chae, Ph.D. student, Kyushu University, Japan (co-supervisor)
- Former students
 - Sung Jo Kwak, Ph.D. student, Kyushu University, Japan (co-supervisor)
 - Jimmy Seng, B.Sc. student, JTW Exchange Student at Kyushu University, Japan (supervisor)
 - François Chollet, B.Sc. student, research student at Kyushu University, Japan (supervisor)
 - Eduardo López Larraz, M.Sc. student, University of Zaragoza, Spain (co-supervisor)
 - Iñaki Iturrate Gil, M.Sc. student, University of Zaragoza, Spain (co-supervisor)
 - Jochen Fischer, B.Sc. student, University of Freiburg, Germany (supervisor)
 - Karla Alcázar Quintero, M.Sc. student, University of Freiburg, Germany (co-supervisor)
 - Axel Rottmann, M.Sc. student, University of Freiburg, Germany (co-supervisor)

Invited Talks

- Centre for Applied Autonomous Sensor Systems (AASS), Örebro University, Sweden, 11/2012.
Perception Systems for Service Robots.
- Department of Advanced Information Technology, Kyushu University, 10/2010.
Object Detection and Categorization in 3D Point Clouds using a Learned Vocabulary of Parts.
- Institut de Robotica i Informàtica Industrial, University of Catalonia (UPC), Spain, 10/2010.
Robotic Perception in Indoor Environments.
- Intelligent Autonomous Systems group, Technical University of Munich, Germany, 07/2010.
Part-Based Object Detection in 3D Point Clouds.
- ESF-JSPS Frontier Science Conference for Young Researchers, 03/2008.
Semantic Labeling of Places with Mobile Robots.
- Robotics, Perception and Real Time Group at the University of Zaragoza, Spain, 02/2008.
Semantic Labeling of Places with Mobile Robots.
- Intelligent Robotic and Vision Systems Lab, Kyushu University, Japan, 05/2008.
Multi-level 2D People Detection using Range Data.
- Slovenian Pattern Recognition Society (SPRS), University of Ljubljana, Slovenia, 12/2005.
Semantic Labeling of Places with Mobile Robots.

Journal Services

- Editor
 - Guest editor in International Journal of Social Robotics. Special Issue on People Detection and Tracking, 2010.
- Reviewer
 - IEEE Transactions on Robotics (TRO), 2009, 2012.
 - The International Journal of Robotics Research (IJRR), 2010, 2011.
 - Autonomous Robots (AR), 2009, 2010.

- Robotics and Autonomous Systems (RAS), 2009–2012.
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2008.
- International Journal of Social Robotics (IJSR), 2009, 2010.
- Journal of Visual Communication and Image Representation (JVIS), 2012.
- RSJ Advanced Robotics Journal, 2011, 2012.
- Journal of Artificial Intelligence Research (JAIR), 2011, 2012
- International Journal of Advanced Robotic Systems, 2012.
- Paladyn Journal of Behavioral Robotics, 2010.

Conference Services

- Chairmanship
 - Co-Organizer of the ICRA 2009 Workshop on People Detection and Tracking, 2009.
- Program Committee Member
 - Robotics: Science and Systems Conference (RSS), 2011, 2012.
 - 2nd ICRA Workshop on Semantic Perception, Mapping and Exploration (SPME 2012).
 - International Joint Conference on Artificial Intelligence (IJCAI), 2011.
- Reviewer
 - IEEE International Conference on Robotics and Automation (ICRA), 2006–2013.
 - IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2007–2012.
 - International Joint Conference on Artificial Intelligence (IJCAI), 2007, 2011.
 - European Conference on Mobile Robots (ECMR), 2007.
 - IEEE International Symposium in Robot and Human Interactive Communication (RO-MAN), 2010.

Citation Indices

On 11 Oct. 2012

- Google Scholar: citations 971; h-index 19; i10-index 22.
- Microsoft Academic: citations 336; g-index 18; h-index 10.

Publications

Books

- [1] O. M. Mozos, *Semantic Place Labeling with Mobile Robots*. Springer Tracts in Advanced Robotics (STAR), vol. 61, Germany: Springer, 2010.

Editorials

- [1] K. O. Arras and O. M. Mozos, eds., Special issue on people detection and tracking, vol. 2. *International Journal of Social Robotics*, March 2010.
- [2] K. O. Arras and O. M. Mozos, eds., *Proceedings of the Workshop on People Detection and Tracking, International Conference on Robotics and Automation (ICRA), May 2009*.

Book Chapters / Collections

- [1] K. O. Arras, B. Lau, S. Grzonka, M. Luber, O. M. Mozos, D. Meyer-Delius, and W. Burgard, Range-based people detection and tracking for socially enabled service robots, in *Towards Service Robots for Everyday Environments* (E. Prassler, M. Zllner, R. Bischoff, W. Burgard, R. Haschke, M. Hgele, G. Lawitzky, B. Nebel, P. Ploger, and U. Reiser, eds.), vol. 76 of STAR Springer Tracts in Advanced Robotics, pp. 235-280, Germany: Springer, 2012.
– Citations: 1 (Google Scholar), 1 (Scopus)
- [2] A. Pronobis, P. Jensfelt, K. Sjöo, H. Zender, G.-J. M. Kruijff, O. M. Mozos, and W. Burgard, Semantic modelling of space, in *Cognitive Systems* (H. I. Christensen, A. Sloman, G.-J. M. Kruijff, and J. Wyatt, eds.), Cognitive Systems Monographs, pp. 165-221, Germany: Springer, 2010.
– Citations: 6 (Google Scholar)
- [3] M. Ballesta, A. Gil, O. Reinoso, and O. M. Mozos, Evaluation of interest point detectors for visual SLAM, in *Recent Advances in Control Systems, Robotics and Automation* (S. Pennacchio, ed.), pp. 190-199, Italy: InternationalSar, second ed., January 2008.
– Citations: 6 (Google Scholar)
- [4] R. Triebel, O. M. Mozos, and W. Burgard, Collective classification for labeling of places and objects in 2D and 3D range data, in *Data Analysis, Machine Learning and Applications* (C. Preisach, H. Burkhardt, L.Schmidt-Thieme, and R.Decker, eds.), Studies in Classification, Data Analysis, and Knowledge Organization, pp. 293-300, Germany: Springer, 2008
– Citations: 1 (Google Scholar)
- [5] O. M. Mozos, A. Gil, M. Ballesta, and O. Reinoso, Interest point detectors for visual SLAM, in *Current Topics in Artificial Intelligence* (D. Borrajo, L. Castillo, and J. M. Corchado, eds.), vol. 4788 of Lecture Notes in Computer Science, pp. 170-179, Germany: Springer Berlin / Heidelberg, 2007.
– Citations: 38 (Google Scholar), 3 (ISI), 1 (Scopus)
- [6] O. M. Mozos, C. Stachniss, A. Rottmann, and W. Burgard, Using adaboost for place labeling and topological map building, in *Robotics Research* (S. Thrun, R. Brooks, and H. Durrant-Whyte, eds.), vol. 28 of STAR Springer tracts in advanced robotics, pp. 453-472, Germany: Springer, 2007.
– Citations: 7 (Google Scholar), 1 (ISI)

Refereed Journal/Magazine Articles

- [1] O. M. Mozos, H. Mizutani, R. Kurazume, and T. Hasegawa, Categorization of indoor places using the kinect sensor, *Sensors*, vol. 12, pp. 6695-6711, May 2012.
– Impact Factor (2011): 1.739
– 5 Years Impact Factor (2011): 2.060
– Citations: 0 (Google Scholar), 0 (ISI), 0 (Scopus)
- [2] O. M. Mozos, Z.-C. Marton, and M. Beetz, Furniture models learned from the WWW - using web catalogs to locate and categorize unknown furniture pieces in 3D laser scans, *IEEE Robotics & Automation Magazine*, vol. 18, pp. 22 - 32, June 2011.
– Impact Factor (2011): 1.985
– 5 Years Impact Factor (2011): 3.387
– Citations: 9 (Google Scholar), 0 (ISI), 1 (Scopus)
- [3] O. M. Mozos, J. A. Bolea, J. M. Ferrandez, P. K. Ahnelt, and E. Fernandez, V-Proportion: A method based on the Voronoi diagram to study spatial relations in neuronal mosaics of the retina, *Neurocomputing*, vol. 74, pp. 418-427, December 2010.
– Impact Factor (2010): 1.442
– 5 Years Impact Factor (2010): 1.441
– Citations: 0 (Google Scholar), 0 (ISI), 0 (Scopus)
REPRINTED AS:

- O. M. Mozos, J. A. Bolea, J. M. Ferrandez, P. K. Ahnelt, and E. Fernandez, Reprint of: V-Proportion: A method based on the Voronoi diagram to study spatial relations in neuronal mosaics of the retina, *Neurocomputing*, vol. 74, pp. 1165-1174, March 2011.
- Impact Factor (2011): 1.580
 - 5 Years Impact Factor (2011): 1.595
 - Citations: 0 (Google Scholar), 0 (ISI), 0 (Scopus)
- [4] A. Gil, O. M. Mozos, M. Ballesta, and O. Reinoso, A comparative evaluation of interest point detectors and local descriptors for visual SLAM, *Machine Vision and Applications (MVA)*, vol. 21, pp. 905-920, October 2010.
- Impact Factor (2010): 1.549
 - 5 Years Impact Factor (2010): 1.691
 - Citations: 42 (Google Scholar), 3 (ISI), 8 (Scopus)
- [5] O. M. Mozos, R. Kurazume, and T. Hasegawa, Multi-part people detection using 2D range data, *International Journal of Social Robotics*, vol. 2, pp. 31-40, March 2010.
- Citations: 30 (Google Scholar), 11 (Scopus)
- [6] A. Pronobis, O. M. Mozos, B. Caputo, and P. Jensfelt, Multi-modal semantic place classification, *International Journal of Robotics Research (IJRR)*, vol. 29, pp. 298-320, February-March 2010.
- Impact Factor (2010): 4.095
 - 5 Years Impact Factor (2010): 3.971
 - Citations: 41 (Google Scholar), 9 (ISI), 16 (Scopus)
- [7] H. Zender, O. M. Mozos, P. Jensfelt, G.-J. M. Kruijff, and W. Burgard, Conceptual spatial representations for indoor mobile robots, *Robotics and Autonomous Systems (RAS)*, vol. 56, pp. 493-502, June 2008.
- Impact Factor (2008): 1.214
 - 5 Years Impact Factor (2008): 1.789
 - Citations: 80 (Google Scholar), 28 (ISI), 43 (Scopus)
- [8] C. Stachniss, O. M. Mozos, and W. Burgard, Efficient exploration of unknown indoor environments using a team of mobile robots, *Annals of Mathematics and Artificial Intelligence (AMAI)*, vol. 52, pp. 205-227, March 2009.
- Impact Factor (2008): 0.722
 - 5 Years Impact Factor (2008): 0.803
 - Citations: 14 (Google Scholar), 2 (ISI), 6 (Scopus)
- [9] O. M. Mozos, R. Triebel, P. Jensfelt, A. Rottmann, and W. Burgard, Supervised semantic labeling of places using information extracted from sensor data, *Robotics and Autonomous Systems (RAS)*, vol. 55, pp. 391-402, May 2007.
- Impact Factor (2008): 0.633.
 - 5 Years Impact Factor (2008): 1.165.
 - Citations: 60 (Google Scholar), 17 (ISI), 29 (Scopus)
- [10] M. Ballesta, A. Gil, O. Reinoso, and O. M. Mozos, Evaluation of interest point detectors for visual SLAM, *International Journal of Factory Automation, Robotics and Soft Computing*, vol. 4, pp. 86-95, 2007.
- Citations: 6 (Google Scholar)
- [11] C. Stachniss, G. Grisetti, O. M. Mozos, and W. Burgard, Efficiently learning metric and topological maps with autonomous service robots, *Information Technology*, vol. 49, no. 4, pp. 232-237, 2007.
- Citations: 1 (Google Scholar)
- [12] P. Ahnelt, E. Fernandez, O. Martinez, J. A. Bolea, and A. Kueber-Heiss, Irregular s-cone mosaics in felid retinas. Spatial interaction with axonless horizontal revealed by cross-correlation, *Journal of the Optical Society of America A (JOSAA)*, vol. 17, pp. 580-588, March 2000.
- Impact Factor (2000): 1.481.
 - Citations: 24 (Google Scholar), 22 (ISI), 22 (Scopus)

Abstracts in Journals

- [1] E. Fernandez, A. Alfaro, J.-M. Tormos, R. Climent, O. Martinez, M. Martinez, and A. Pascual-Leone, Neurophysiological evaluation of visual cortex excitability using image-guided transcranial magnetic stimulation, *Investigative Ophthalmology and Visual Science (IOVS)*, vol. 43, no. 12, pp. 4485-, 2002.
– Impact Factor (2002): 4.091.
- [2] E. Fernandez, P. Ahnelt, O. Martinez, J. A. Bolea, and A. Kueber-Heiss, Correlacion espacial entre mosaicos de conos azules y celulas horizontales sin axon en retinas de felinos, *Revista de Neurologia*, vol. 30, pp. 219-, February 2000.
– Impact Factor (2000): 0.256.

Refereed Conference / Workshop Contributions

- [1] O. M. Mozos, F. Chollet, K. Murakami, K. Morooka, T. Tsuji, R. Kurazume, and T. Hasegawa, Tracing commodities in indoor environments for service robotics, in *Proc. of the 10th IFAC Symposium on Robot Control*, (Dubrovnik, Croatia), September 2012.
- [2] P. K. Ahnelt, J. Seng, M. Zieger, T. Hasegawa, and O. M. Mozos, Spatial statistics of S-cones in primate/human retinal periphery suggests a correlation with domains of vascular subtypes, in *ARVO Annual Meeting*, (Fort Lauderdale, Fla, USA), May 2012.
- [3] H. Mizutani, O. M. Mozos, R. Kurazume, Y. Iwashita, and T. Hasegawa, Indoor space categorization using RGB-D camera, in *17th Robotics Symposia*, (Hagi, Japan), pp. 461-468, March 2012. (In Japanese).
- [4] E. Lopez Larraz and O.M. Mozos and J. M. Antelis and J. Minguez, Syllable-Based Speech Recognition Using EMG, *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, (Buenos Aires, Argentina), September 2010.
– Citations: 1 (Google Scholar)
- [5] E. L. Larraz, O. M. Mozos, J. M. Antelis, J. D. Tajada, and J. M. Zafra, Diseño de un sistema de reconocimiento del habla mediante electromiografía, in *Actas del XXVII Congreso Anual de la Sociedad Española de Ingeniería Biomedica (CASEIB)*, (Cadiz, Spain), pp. 601-604, November 2009. (In Spanish).
- [6] O. M. Mozos, J. A. Bolea, E. Fernandez, and P. K. Ahnelt, V-proportion: A method based on the voronoi diagram to study spatial relations between neuronal mosaics, in *Proceedings of the XIII Encuentros de Geometria Computacional*, (Zaragoza, Spain), pp. 131-138, June 2009.
- [7] O. M. Mozos, R. Kurazume, and T. Hasegawa, Multi-layer people detection using 2D range data, in *Proceedings of the ICRA 2009 Workshop: People Detection and Tracking*, May 2009.
- [8] A. Pronobis, O. M. Mozos, and B. Caputo, SVM-based discriminative accumulation scheme for place recognition, in *Proceedings of the IEEE International Conference on Robotics and Automation (ICRA)*, (Pasadena, CA, USA), pp. 522-529, May 2008.
– Citations: 30 (Google Scholar), 0 (ISI), 5 (Scopus)
- [9] O. M. Mozos, A. Gil, M. Ballesta, and O. Reinoso, Interest point detectors for visual SLAM, in *Proceedings of the Conference of the Spanish Association for Artificial Intelligence (CAEPIA)*, (Salamanca, Spain), November 2007.
- [10] M. Ballesta, A. Gil, O. M. Mozos, and O. Reinoso, Local descriptors for visual SLAM, in *Workshop on Robotics and Mathematics (ROBOMAT)*, (Coimbra, Portugal), September 2007.
– Citations: 23 (Google Scholar)
- [11] H. Zender, P. Jensfelt, O. M. Mozos, G.-J. M. Kruijff, and W. Burgard, An integrated robotic system for spatial understanding and situated interaction in indoor environments, in *Proceedings of the Conference on Artificial Intelligence (AAAI)*, (Vancouver, British Columbia, Canada), July 2007.
– Citations: 28 (Google Scholar), 8 (Scopus)

- [12] O. M. Mozos, P. Jensfelt, H. Zender, G.-J. M. Kruijff, and W. Burgard, From labels to semantics: An integrated system for conceptual spatial representations of indoor environments for mobile robots, in Proceedings of the IEEE ICRA Workshop: Semantic information in robotics, pp. 33-40, April 2007.
– Citations: 22 (Google Scholar)
- [13] K. O. Arras, O. M. Mozos, and W. Burgard, Using boosted features for the detection of people in 2D range data, in Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), pp. 3402-3407, April 2007.
– Citations: 114 (Google Scholar), 23 (ISI), 36 (Scopus)
- [14] R. Triebel, O. M. Mozos, and W. Burgard, Relational learning in mobile robotics: An application to semantic labeling of objects in 2D and 3D environment maps, in Annual Conference of the German Classification Society on Data Analysis, Machine Learning, and Applications (GFKL), (Freiburg, Germany), March 2007.
– Citations: 8 (Google Scholar)
- [15] R. Triebel, R. Schmidt, O. M. Mozos, and W. Burgard, Instance-based AMN classification for improved object recognition in 2D and 3D laser range data, in Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), (Hyderabad, India), pp. 2225-2230, January 2007.
– Citations: 37 (Google Scholar), 0 (ISI)
- [16] O. M. Mozos and W. Burgard, Supervised learning of topological maps using semantic information extracted from range data., in IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), (Beijing, China), October 2006.
– Citations: 26 (Google Scholar), 0 (ISI), 4 (Scopus)
- [17] A. Gil, O. Reinoso, W. Burgard, C. Stachniss, and O. M. Mozos, Improving data association in vision-based SLAM, in Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), (Beijing, China), pp. 2076-2081, October 2006.
– Citations: 45 (Google Scholar), 0 (ISI), 11 (Scopus)
- [18] O. M. Mozos, A. Rottmann, R. Triebel, P. Jensfelt, and W. Burgard, Semantic labeling of places using information extracted from laser and vision sensor data, in Proceedings of the IEEE/RSJ IROS Workshop: From sensors to human spatial concepts, (Beijing, China), pp. 2772-2777, October 2006.
– Citations: 18 (Google Scholar)
- [19] A. Gil, O. Reinoso, C. Fernandez, A. Vicente, A. Rottmann, and O. M. Mozos, Simultaneous localization and mapping in unmodified environments using stereo vision, in Proceedings of the International Conference on Informatics in Control, Automation and Robotics (ICINCO), (Setubal, Portugal), pp. 302-309, August 2006.
– Citations: 3 (Google Scholar), 0 (ISI), 0 (Scopus)
- [20] C. Stachniss, O. M. Mozos, and W. Burgard, Speeding-up multi-robot exploration by considering semantic place information, in Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), (Orlando, FL, USA), pp. 1692-1697, May 2006.
– Citations: 30 (Google Scholar), 3 (ISI), 13 (Scopus)
- [21] A. Rottmann, O. M. Mozos, C. Stachniss, and W. Burgard, Semantic place classification of indoor environments with mobile robots using boosting., in Proceedings of the National Conference on Artificial Intelligence (AAAI), (Pittsburgh, PA, USA), pp. 1306-1311, July 2005.
– Citations: 61 (Google Scholar), 22 (Scopus)
- [22] O. M. Mozos, C. Stachniss, and W. Burgard, Supervised learning of places from range data using AdaBoost, in Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), (Barcelona, Spain), pp. 1742-1747, April 2005. **Finalist Best Student Paper.**
– Citations: 118 (Google Scholar), 2 (ISI), 18 (Scopus)

- [23] E. Fernandez, J. Tormos, A. Alfaro, R. Climent, O. Martinez, and A. Pascual-Leone, Neurophysiological evaluation of visual cortex excitability using image-guided transcranial magnetic stimulation, in Annual Spring Meeting of the Association for Research in Vision and Ophthalmology (ARVO), (Fort Lauderdale, USA), May 2002.
- [24] E. Fernandez, P. Ahnelt, O. Martinez, J. A. Bolea, and A. Kueber-Heiss, Correlacion espacial entre mosaicos de conos azules y celulas horizontales sin axon en retinas de felinos, in VII Congreso de la Sociedad Española de Neurociencias (SENC), (Murcia, Spain), September 1999. (In Spanish)

Invited Contributions

- [1] O. M. Mozos, H. Mizutani, R. Kurazume, and T. Hasegawa, Categorization of indoor places using rgb-d sensors, in The 8th Joint Workshop on Machine Perception and Robotics (MPR2012), (Fukuoka, Japan), October 2012.
- [2] O. M. Mozos, R. Kurazume, and T. Hasegawa, People detection in everyday environments using multi-layered 2D range data, in The 7th Joint Workshop on Machine Perception and Robotics (MPR2011), (Beijing, China), October 2011.
- [3] C. Stachniss, O. M. Mozos, A. Rottmann, and W. Burgard, Semantic labeling of places, in International Symposium of Robotics Research (ISRR), (San Francisco, CA, USA), October 2005.
– Citations: 27 (Google Scholar)

Other Publications

- [1] O. M. Mozos, H. Mizutani, R. Kurazume, Y. Iwashita, and T. Hasegawa, Indoor place categorization for service robots using camera and depth images, in Computer Vision and Image Media (CVIM), Vol.2012-(CVIM)-180, No.28, 2012.1.19, (Osaka, Japan), January 2012. (In Japanese).
- [2] P. K. Ahnelt, J. Seng, M. Zieger, T. Hasegawa, and O. M. Mozos, Spatial statistics suggests a positive correlation of s-cones to retinal capillary domains in primate/human retinal periphery, in International Symposium on Ocular Pharmacology and Therapeutics (ISOPT), (Vienna, Austria), December 2011.
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