# Miguel A Sotelo

List of Publications by Year
in descending order

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|---|---|---|---|
| 168<br>papers | 4,720<br>citations | 126907<br>33<br>h-index | 128289<br>60<br>g-index |
| 173<br>all docs | 173<br>docs citations | 173<br>times ranked | 3825<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A high-performance neural network vehicle dynamics model for trajectory tracking control. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 1695-1709. | 1.9 | 5 |
| 2 | Pedestrian Motion Trajectory Prediction in Intelligent Driving from Far Shot First-Person Perspective Video. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5298-5313. | 8.0 | 53 |
| 3 | Event-Triggered H<sub>â^ž</sub>  Load Frequency Control for Multi-Area Nonlinear Power Systems Based on Non-Fragile Proportional Integral Control Strategy. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12191-12201. | 8.0 | 46 |
| 4 | Event-Triggered Adaptive Neural Fault-Tolerant Control of Underactuated MSVs With Input Saturation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7045-7057. | 8.0 | 82 |
| 5 | Design, Fabrication, and Testing of a Novel Ferrofluid Soft Capsule Robot. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1403-1413. | 5.8 | 9 |
| 6 | Event-Triggered Adaptive Fuzzy Setpoint Regulation of Surface Vessels With Unmeasured Velocities Under Thruster Saturation Constraints. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13463-13472. | 8.0 | 23 |
| 7 | Voxel-RCNN-Complex: An Effective 3-D Point Cloud Object Detector for Complex Traffic Conditions. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12. | 4.7 | 13 |
| 8 | C C I B A*: An Improved BA* Based Collaborative Coverage Path Planning Method for Multiple Unmanned Surface Mapping Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19578-19588. | 8.0 | 16 |
| 9 | A Novel Reconstruction Method for Temperature Distribution Measurement Based on Ultrasonic Tomography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2352-2370. | 3.0 | 70 |
| 10 | Testing Predictive Automated Driving Systems: Lessons Learned and Future Recommendations. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 77-93. | 3.8 | 6 |
| 11 | SFNet-N: An Improved SFNet Algorithm for Semantic Segmentation of Low-Light Autonomous Driving Road Scenes. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21405-21417. | 8.0 | 81 |
| 12 | A novel motion-based online temporal calibration method for multi-rate sensors fusion. Information Fusion, 2022, 88, 59-77. | 19.1 | 2 |
| 13 | Path Following Optimization for an Underactuated USV Using Smoothly-Convergent Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6208-6220. | 8.0 | 81 |
| 14 | Personal Rapid Transport System Compatible With Current Railways and Metros Infrastructure. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2891-2901. | 8.0 | 2 |
| 15 | Visual Map-Based Localization for Intelligent Vehicles From Multi-View Site Matching. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1068-1079. | 8.0 | 10 |
| 16 | Fault Detection Filter and Controller Co-Design for Unmanned Surface Vehicles Under DoS Attacks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1422-1434. | 8.0 | 100 |
| 17 | A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. IEEE Internet of Things Journal, 2021, 8, 5822-5838. | 8.7 | 6 |
| 18 | Environment-Attention Network for Vehicle Trajectory Prediction. IEEE Transactions on Vehicular Technology, 2021, 70, 11216-11227. | 6.3 | 33 |

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| 19 | Vehicle Lane Change Prediction on Highways Using Efficient Environment Representation and Deep Learning. IEEE Access, 2021, 9, 119454-119465. | 4.2 | 6 |
| 20 | Adaptive Neural Output Feedback Control for MSVs With Predefined Performance. IEEE Transactions on Vehicular Technology, 2021, 70, 2994-3006. | 6.3 | 61 |
| 21 | Georeferencing kinematic modeling and error correction of terrestrial laser scanner for 3D scene reconstruction. Automation in Construction, 2021, 126, 103673. | 9.8 | 2 |
| 22 | CAPformer: Pedestrian Crossing Action Prediction Using Transformer. Sensors, 2021, 21, 5694. | 3.8 | 15 |
| 23 | Urban Intersection Classification: A Comparative Analysis. Sensors, 2021, 21, 6269. | 3.8 | 5 |
| 24 | Design a Novel Target to Improve Positioning Accuracy of Autonomous Vehicular Navigation System in GPS Denied Environments. IEEE Transactions on Industrial Informatics, 2021, 17, 7575-7588. | 11.3 | 23 |
| 25 | Creating navigation map in semi-open scenarios for intelligent vehicle localization using multi-sensor fusion. Expert Systems With Applications, 2021, 184, 115543. | 7.6 | 12 |
| 26 | YOLOv4-5D: An Effective and Efficient Object Detector for Autonomous Driving. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13. | 4.7 | 142 |
| 27 | Using Weighted Total Least Squares and 3-D Conformal Coordinate Transformation to Improve the Accuracy of Mobile Laser Scanning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 203-217. | 6.3 | 9 |
| 28 | Navigational risk assessment of Three Gorges ship lock: Field data analysis using intelligent expert system. Journal of Intelligent and Fuzzy Systems, 2020, 38, 1197-1202. | 1.4 | 2 |
| 29 | Testing and Evaluating Driverless Vehicles' Intelligence: The Tsinghua Lion Case Study. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 10-22. | 3.8 | 9 |
| 30 | Lane Work-Schedule of Toll Station Based on Queuing Theory and PSO-LSTM Model. IEEE Access, 2020, 8, 84434-84443. | 4.2 | 21 |
| 31 | UB-LSTM: A Trajectory Prediction Method Combined with Vehicle Behavior Recognition. Journal of Advanced Transportation, 2020, 2020, 1-12. | 1.7 | 20 |
| 32 | A Magnetorheological Fluid-Filled Soft Crawling Robot With Magnetic Actuation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2700-2710. | 5.8 | 39 |
| 33 | An Improved LSTM Model for Behavior Recognition of Intelligent Vehicles. IEEE Access, 2020, 8, 101514-101527. | 4.2 | 12 |
| 34 | A new bionic lateral line system applied to pitch motion parameters perception for autonomous underwater vehicles. Applied Ocean Research, 2020, 99, 102142. | 4.1 | 27 |
| 35 | A Novel Multifeature Based On-Site Calibration Method for LiDAR-IMU System. IEEE Transactions on Industrial Electronics, 2020, 67, 9851-9861. | 7.9 | 23 |
| 36 | Hybrid Dynamic Traffic Model for Freeway Flow Analysis Using a Switched Reduced-Order Unknown-Input State Observer. Sensors, 2020, 20, 1609. | 3.8 | 4 |

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| 37 | A Novel Surface Inset Permanent Magnet Synchronous Motor for Electric Vehicles. Symmetry, 2020, 12, 179. | 2.2 | 9 |
| 38 | Compensation of Geometric Parameter Errors for Terrestrial Laser Scanner by Integrating Intensity Correction. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7483-7495. | 6.3 | 2 |
| 39 | Pedestrian Path, Pose, and Intention Prediction Through Gaussian Process Dynamical Models and Pedestrian Activity Recognition. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1803-1814. | 8.0 | 95 |
| 40 | Hierarchical Fuzzy Logic-Based Variable Structure Control for Vehicles Platooning. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1329-1340. | 8.0 | 34 |
| 41 | A novel sparse representation model for pedestrian abnormal trajectory understanding. Expert Systems With Applications, 2019, 138, 112753. | 7.6 | 64 |
| 42 | A New Switched State Jump Observer for Traffic Density Estimation in Expressways Based on Hybrid-Dynamic-Traffic-Network-Model. Sensors, 2019, 19, 3822. | 3.8 | 6 |
| 43 | Practical Sensing Techniques for Intelligent Vehicles [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 5-C3. | 3.8 | 0 |
| 44 | Rough Set Based Method for Vehicle Collision Risk Assessment Through Inferring Driver's Braking Actions in Near-Crash Situations. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 54-69. | 3.8 | 16 |
| 45 | A Robust Registration Method for Autonomous Driving Pose Estimation in Urban Dynamic Environment Using LiDAR. Electronics (Switzerland), 2019, 8, 43. | 3.1 | 25 |
| 46 | Guest Editorial Introduction to the Special Issue on the 2018 IEEE Intelligent Vehicles Symposium (IVâ€™18). IEEE Transactions on Intelligent Vehicles, 2019, 4, 335-336. | 12.7 | 0 |
| 47 | Short-term vessel traffic flow forecasting by using an improved Kalman model. Cluster Computing, 2019, 22, 7907-7916. | 5.0 | 15 |
| 48 | A novel image recognition algorithm of target identification for unmanned surface vehicles based on deep learning. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4437-4447. | 1.4 | 8 |
| 49 | The Experience of DRIVERTIVE-DRIVERless cooperaTIve VEhicle-Team in the 2016 GCDC. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1322-1334. | 8.0 | 18 |
| 50 | At the Core of Intelligent Transportation Technologies [President's Message]. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 3-5. | 3.8 | 1 |
| 51 | An Innovative Osmotic Computing Framework for Self Adapting City Traffic in Autonomous Vehicle Environment. , 2018, , . | | 8 |
| 52 | High-Level Interpretation of Urban Road Maps Fusing Deep Learning-Based Pixelwise Scene Segmentation and Digital Navigation Maps. Journal of Advanced Transportation, 2018, 2018, 1-15. | 1.7 | 5 |
| 53 | From Intelligent Vehicles to Smart Societies: A Parallel Driving Approach. IEEE Transactions on Computational Social Systems, 2018, 5, 594-604. | 4.4 | 20 |
| 54 | Energy Dissipation Based Longitudinal and Lateral Coupling Control for Intelligent Vehicles. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 121-133. | 3.8 | 8 |

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| 55 | Multiscale Site Matching for Vision-Only Self-Localization of Intelligent Vehicles. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 170-183. | 3.8 | 18 |
| 56 | Assistive Intelligent Transportation Systems: The Need for User Localization and Anonymous Disability Identification. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 25-40. | 3.8 | 17 |
| 57 | Image Sequence Matching Using Both Holistic and Local Features for Loop Closure Detection. IEEE Access, 2017, 5, 13835-13846. | 4.2 | 14 |
| 58 | Deep fully convolutional networks with random data augmentation for enhanced generalization in road detection. , 2017, , . | | 32 |
| 59 | A Hybrid Vision-Map Method for Urban Road Detection. Journal of Advanced Transportation, 2017, 2017, 1-21. | 1.7 | 16 |
| 60 | WiFi SLAM algorithms: an experimental comparison. Robotica, 2016, 34, 837-858. | 1.9 | 13 |
| 61 | Comparison between UHF RFID and BLE for Stereo-Based Tag Association in Outdoor Scenarios. , 2016, , . | | 6 |
| 62 | ITS Magazine Selected for Coverage in JCR [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 3-3. | 3.8 | 0 |
| 63 | A Growing Magazine for a Growing Society [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 3-3. | 3.8 | 0 |
| 64 | ITS and Emergent Technologies [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 2-2. | 3.8 | 0 |
| 65 | A Comparative Analysis of Decision Trees Based Classifiers for Road Detection in Urban Environments. , 2015, , . | | 11 |
| 66 | Lightweight Occupancy Estimation on Freeways Using Extended Floating Car Data. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2014, 18, 149-163. | 4.2 | 13 |
| 67 | Pedestrian path prediction based on body language and action classification. , 2014, , . | | 30 |
| 68 | New Conductor, Same Orchestra [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 2-2. | 3.8 | 0 |
| 69 | Special Issue on the 2013 IEEE Intelligent Vehicles Symposium & Workshop [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 5-7. | 3.8 | 0 |
| 70 | ITS at the Cutting Edge [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 3-3. | 3.8 | 0 |
| 71 | Keynote lecture pedestrian path prediction and action classification using Computer Vision and body language traits. , 2014, , . | | 0 |
| 72 | Vehicle model recognition using geometry and appearance of car emblems from rear view images. , 2014, , . | | 30 |

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| 73 | Pedestrian path prediction using body language traits. , 2014, , . | | 39 |
| 74 | Road curb and lanes detection for autonomous driving on urban scenarios. , 2014, , . | | 21 |
| 75 | Hierarchical camera auto-calibration for traffic surveillance systems. Expert Systems With Applications, 2014, 41, 1532-1542. | 7.6 | 23 |
| 76 | Parking Assistance System for Leaving Perpendicular Parking Lots: Experiments in Daytime/Nighttime Conditions. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 57-68. | 3.8 | 8 |
| 77 | From ITS to ETS [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 4-4. | 3.8 | 4 |
| 78 | Vision-based parking assistance system for leaving perpendicular and angle parking lots. , 2013, , . | | 4 |
| 79 | Real-time vision-based blind spot warning system: Experiments with motorcycles in daytime/nighttime conditions. International Journal of Automotive Technology, 2013, 14, 113-122. | 1.4 | 16 |
| 80 | Camera auto-calibration using zooming and zebra-crossing for traffic monitoring applications. , 2013, , . | | 6 |
| 81 | Vehicle logo recognition in traffic images using HOG features and SVM. , 2013, , . | | 82 |
| 82 | Special Issue on 2012 IEEE Intelligent Vehicles Symposium [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 8-9. | 3.8 | 0 |
| 83 | The 2013 IEEE Intelligent Vehicles Symposium (IEEE-IV?13) Sofitel Broadbeach, Gold Coast, Australia [Conference Reports]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 169-172. | 3.8 | 0 |
| 84 | Autonomous Navigation and Obstacle Avoidance of a Micro-Bus. International Journal of Advanced Robotic Systems, 2013, 10, 212. | 2.1 | 15 |
| 85 | Universidad de Alcalá. , 2013, , . | | 0 |
| 86 | Special Issue on IEEE IV 2012 Workshops: Part 1 of 2 [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 6-7. | 3.8 | 0 |
| 87 | 2012 IEEE Intelligent Vehicles Symposium 3-7 June, Alcala de Henares, Spain [Conference Report]. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 54-55. | 3.8 | 1 |
| 88 | Free space and speed humps detection using lidar and vision for urban autonomous navigation. , 2012, , . | | 25 |
| 89 | Monocular target detection on transport infrastructures with dynamic and variable environments. , 2012, , . | | 3 |
| 90 | Accurate Global Localization Using Visual Odometry and Digital Maps on Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1535-1545. | 8.0 | 76 |

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| 91 | Stereo regions-of-interest selection for pedestrian protection: A survey. Transportation Research Part C: Emerging Technologies, 2012, 25, 226-237. | 7.6 | 40 |
| 92 | Intelligent automatic overtaking system using vision for vehicle detection. Expert Systems With Applications, 2012, 39, 3362-3373. | 7.6 | 107 |
| 93 | Vision-based active safety system for automatic stopping. Expert Systems With Applications, 2012, 39, 11234-11242. | 7.6 | 27 |
| 94 | Extended Floating Car Data System: Experimental Results and Application for a Hybrid Route Level of Service. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 25-35. | 8.0 | 19 |
| 95 | Introduction to the Special Issue on Emergent Cooperative Technologies in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1-5. | 8.0 | 27 |
| 96 | Surface Classification for Road Distress Detection System Enhancement. Lecture Notes in Computer Science, 2012, , 600-607. | 1.3 | 2 |
| 97 | Monocular Vision-Based Target Detection on Dynamic Transport Infrastructures. Lecture Notes in Computer Science, 2012, , 576-583. | 1.3 | 3 |
| 98 | Automatic Traffic Signs and Panels Inspection System Using Computer Vision. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 485-499. | 8.0 | 61 |
| 99 | Visual odometry and map fusion for GPS navigation assistance. , 2011, , . | | 21 |
| 100 | Drowsiness monitoring based on driver and driving data fusion. , 2011, , . | | 34 |
| 101 | Autonomous Pedestrian Collision Avoidance Using a Fuzzy Steering Controller. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 390-401. | 8.0 | 152 |
| 102 | Enhanced WiFi localization system based on Soft Computing techniques to deal with small-scale variations in wireless sensors. Applied Soft Computing Journal, 2011, 11, 4677-4691. | 7.2 | 26 |
| 103 | A vision-based system for automatic hand washing quality assessment. Machine Vision and Applications, 2011, 22, 219-234. | 2.7 | 37 |
| 104 | Automatic LightBeam Controller for driver assistance. Machine Vision and Applications, 2011, 22, 819-835. | 2.7 | 42 |
| 105 | Robust traffic signs detection by means of vision and V2I communications. , 2011, , . | | 19 |
| 106 | Extended Floating Car Data system - experimental study. , 2011, , . | | 3 |
| 107 | Adaptive Road Crack Detection System by Pavement Classification. Sensors, 2011, 11, 9628-9657. | 3.8 | 259 |
| 108 | Traffic Data Collection for Floating Car Data Enhancement in V2I Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, . | 1.7 | 24 |

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| 109 | Robust visual odometry for vehicle localization in urban environments. Robotica, 2010, 28, 441-452. | 1.9 | 35 |
| 110 | Perception advances in outdoor vehicle detection for automatic cruise control. Robotica, 2010, 28, 765-779. | 1.9 | 11 |
| 111 | Error Analysis in a Stereo Vision-Based Pedestrian Detection Sensor for Collision Avoidance Applications. Sensors, 2010, 10, 3741-3758. | 3.8 | 31 |
| 112 | Stereo Vision Tracking of Multiple Objects in Complex Indoor Environments. Sensors, 2010, 10, 8865-8887. | 3.8 | 22 |
| 113 | Vision-Based Traffic Data Collection Sensor for Automotive Applications. Sensors, 2010, 10, 860-875. | 3.8 | 18 |
| 114 | Clavileño: Evolution of an autonomous car. , 2010, , . | | 22 |
| 115 | Automatic information recognition of traffic panels using SIFT descriptors and HMMs. , 2010, , . | | 6 |
| 116 | Automatic training method applied to a WiFi+ultrasound POMDP navigation system. Robotica, 2009, 27, 1049-1061. | 1.9 | 9 |
| 117 | Face tracking and pose estimation with automatic three-dimensional model construction. IET Computer Vision, 2009, 3, 93. | 2.0 | 14 |
| 118 | An Experimental Study on Pitch Compensation in Pedestrian-Protection Systems for Collision Avoidance and Mitigation. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 469-474. | 8.0 | 36 |
| 119 | Automatic information extraction of traffic panels based on computer vision. , 2009, , . | | 6 |
| 120 | Interoperable Control Architecture for Cybercars and Dual-Mode Cars. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 146-154. | 8.0 | 22 |
| 121 | Real-Time Vision-Based Vehicle Detection for Rear-End Collision Mitigation Systems. Lecture Notes in Computer Science, 2009, , 320-325. | 1.3 | 11 |
| 122 | WiFi Localization System Using Fuzzy Rule-Based Classification. Lecture Notes in Computer Science, 2009, , 383-390. | 1.3 | 8 |
| 123 | 3D Visual Odometry for Road Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 51, 113-134. | 3.4 | 21 |
| 124 | Blind spot detection using vision for automotive applications. Journal of Zhejiang University: Science A, 2008, 9, 1369-1372. | 2.4 | 25 |
| 125 | Night time vehicle detection for driving assistance lightbeam controller. , 2008, , . | | 45 |
| 126 | Robot and obstacles localization and tracking with an external camera ring. , 2008, , . | | 6 |

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| 127 | Automatic Daytime Road Traffic Control and Monitoring System. , 2008, , . | | 17 |
| 128 | Robust visual odometry for complex urban environments. , 2008, , . | | 4 |
| 129 | Visual Monitoring of Driver Inattention. Studies in Computational Intelligence, 2008, , 19-37. | 0.9 | 16 |
| 130 | A Bayesian Solution to Robustly Track Multiple Objects from Visual Data. Studies in Computational Intelligence, 2008, , 531-547. | 0.9 | 0 |
| 131 | Tracking Multiple Objects Using a Kalman Filter and a Probabilistic Association Process. , 2007, , . | | 2 |
| 132 | Comparing a Kalman Filter and a Particle Filter in a Multiple Objects Tracking Application. , 2007, , . | | 15 |
| 133 | People Location System based on WiFi Signal Measure. , 2007, , . | | 7 |
| 134 | Extraction of 3D Features from Complex Environments in Visual Tracking Applications. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , . | 0.0 | 3 |
| 135 | Tracking using Particle and Kalman Filters in Hand Washing Quality Assessment System. , 2007, , . | | 0 |
| 136 | Combination of Feature Extraction Methods for SVM Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 292-307. | 8.0 | 135 |
| 137 | 2D Visual Odometry method for Global Positioning Measurement. , 2007, , . | | 3 |
| 138 | Using Fuzzy Logic in Automated Vehicle Control. IEEE Intelligent Systems, 2007, 22, 36-45. | 4.0 | 89 |
| 139 | Visual odometry for road vehiclesâ€"feasibility analysis. Journal of Zhejiang University: Science A, 2007, 8, 2017-2020. | 2.4 | 3 |
| 140 | Comparative study of chained systems theory and fuzzy logic as a solution for the nonlinear lateral control of a road vehicle. Nonlinear Dynamics, 2007, 49, 463-474. | 5.2 | 5 |
| 141 | Knowledge-based Intelligent Diagnosis of Ground Robot Collision with Non Detectable Obstacles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 539-566. | 3.4 | 17 |
| 142 | Adaptive Fuzzy Sliding Mode Controller for the Kinematic Variables of an Underwater Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 49, 189-215. | 3.4 | 56 |
| 143 | Low level controller for a POMDP based on WiFi observations. Robotics and Autonomous Systems, 2007, 55, 132-145. | 5.1 | 11 |
| 144 | Comparison of WiFi Map Construction Methods for WiFi POMDP Navigation Systems. , 2007, , 1216-1222. | | 1 |

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| 145 | A Bayesian Solution to Track Multiple and Dynamic Objects Robustly from Visual Data. , 2006, , . | | 0 |
| 146 | Real-Time System for Monitoring Driver Vigilance. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 63-77. | 8.0 | 544 |
| 147 | Bounding Box Accuracy in Pedestrian Detection for Intelligent Transportation Systems. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , . | 0.0 | 6 |
| 148 | Training Method Improvements of a WiFi Navigation System Based on POMDP. , 2006, , . | | 4 |
| 149 | 3D-Visual Detection of Multiple Objects and Structural Features in Complex and Dynamic Indoor Environments. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , . | 0.0 | 0 |
| 150 | Real Time Driving-Aid System for Different Lighting Conditions, on Board a Road Vehicle. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , . | 0.0 | 2 |
| 151 | Control of a Robotic Wheelchair Using Recurrent Networks. Autonomous Robots, 2005, 18, 5-20. | 4.8 | 7 |
| 152 | Road Vehicle Recognition in Monocular Images. , 2005, , . | | 7 |
| 153 | Indoor Robot Localization System Using WiFi Signal Measure and Minimizing Calibration Effort. , 2005, , . | | 39 |
| 154 | "XPFCP": an extended particle filter for tracking multiple and dynamic objects in complex environments. , 2005, , . | | 10 |
| 155 | Clustering methods for 3D vision data and its application in a probabilistic estimator for tracking multiple objects. , 2005, , . | | 3 |
| 156 | Indoor robot navigation using a POMDP based on WiFi and ultrasound observations. , 2005, , . | | 17 |
| 157 | A Color Vision-Based Lane Tracking System for Autonomous Driving on Unmarked Roads. Autonomous Robots, 2004, 16, 95-116. | 4.8 | 113 |
| 158 | VIRTUOUS: Vision-Based Road Transportation for Unmanned Operation on Urban-Like Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2004, 5, 69-83. | 8.0 | 90 |
| 159 | Lateral control strategy for autonomous steering of Ackerman-like vehicles. Robotics and Autonomous Systems, 2003, 45, 223-233. | 5.1 | 74 |
| 160 | Vision Based Intelligent System for Autonomous and Assisted Downtown Driving. Lecture Notes in Computer Science, 2003, , 326-336. | 1.3 | 2 |
| 161 | ADVOCATE II: ADVanced On-Board Diagnosis and Control of Autonomous Systems II. Lecture Notes in Computer Science, 2003, , 302-313. | 1.3 | 7 |
| 162 | An integral system for assisted mobility [automated wheelchair]. IEEE Robotics and Automation Magazine, 2001, 8, 46-56. | 2.0 | 100 |

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| 163 | Unsupervised and adaptive Gaussian skin-color model. Image and Vision Computing, 2000, 18, 987-1003. | 4.5 | 64 |
| 164 | Automation of an Industrial Fork Lift Truck, Guided by Artificial Vision in Open Environments. Autonomous Robots, 1998, 5, 215-231. | 4.8 | 14 |
| 165 | Vehicle fuzzy driving based on DGPS and vision. , 0, , . | | 6 |
| 166 | Fusing odometric and vision data with an EKF to estimate the absolute position of an autonomous mobile robot. , 0, , . | | 3 |
| 167 | Traffic sign detection in static images using Matlab. , 0, , . | | 5 |
| 168 | Vision-based navigation system for autonomous urban transport vehicles in outdoor environments. , 0, , . | | 2 |