

Vicente Milanes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1003533/publications.pdf>

Version: 2024-02-01

99
papers

5,255
citations

212478

28
h-index

104191

69
g-index

104
all docs

104
docs citations

104
times ranked

4340
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The Tornado Project: An Automated Driving Demonstration in Peri-Urban and Rural Areas. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 20-36. | 2.6 | 2 |
| 2 | LPV-Based Autonomous Vehicle Lateral Controllers: A Comparative Analysis. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13570-13581. | 4.7 | 13 |
| 3 | Multi-Model Adaptive Control for CACC Applications. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1206-1216. | 4.7 | 14 |
| 4 | Autonomous Driving: Part 2-Learning and Cognition [From the Guest Editors]. IEEE Signal Processing Magazine, 2021, 38, 20-21. | 4.6 | 0 |
| 5 | Design and Experimental Validation of an LPV Pure Pursuit Automatic Steering Controller. IFAC-PapersOnLine, 2021, 54, 63-68. | 0.5 | 8 |
| 6 | LPV/LFT Control Design Equipped with a Command Governor for Different Steering Scenarios. IFAC-PapersOnLine, 2021, 54, 142-147. | 0.5 | 1 |
| 7 | Impressions after an automated mobility experience: An acceptance study. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 81, 27-40. | 1.8 | 3 |
| 8 | Youla-Kucera based multi-objective car following controller. Control Engineering Practice, 2021, 115, 104908. | 3.2 | 1 |
| 9 | Visibility-Aware Adaptive Speed Planner for Human-like Navigation in Roundabouts. , 2021, , . | | 1 |
| 10 | A Reference Governor approach for Lateral Control of Autonomous Vehicles. , 2021, , . | | 0 |
| 11 | Interpolation of multi-LPV control systems based on Youla-Kucera parameterization. Automatica, 2021, 134, 109963. | 3.0 | 3 |
| 12 | Iso-damping fractional-order control for robust automated car-following. Journal of Advanced Research, 2020, 25, 181-189. | 4.4 | 8 |
| 13 | Autonomous Driving: Part 1-Sensing and Perception [From the Guest Editors]. IEEE Signal Processing Magazine, 2020, 37, 11-13. | 4.6 | 5 |
| 14 | A Two-Stage Real-Time Path Planning: Application to the Overtaking Manuever. IEEE Access, 2020, 8, 128730-128740. | 2.6 | 5 |
| 15 | A first approach for a passenger-centered behavior on driverless vehicles. , 2020, , . | | 1 |
| 16 | Advances in Youla-Kucera parametrization: A Review. Annual Reviews in Control, 2020, 49, 81-94. | 4.4 | 24 |
| 17 | On the Passenger Acceptance of Driverless Shuttles. IEEE Intelligent Transportation Systems Magazine, 2020, , 0-0. | 2.6 | 2 |
| 18 | Gain-scheduled steering control for autonomous vehicles. IET Control Theory and Applications, 2020, 14, 3451-3460. | 1.2 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Towards Autonomous Driving: a Multi-Modal 360° Perception Proposal. , 2020, , . | | 9 |
| 20 | A Cooperative Car-Following/Emergency Braking System With Prediction-Based Pedestrian Avoidance Capabilities. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1837-1846. | 4.7 | 38 |
| 21 | Mixing V2V- and non-V2V-equipped vehicles in car following. Transportation Research Part C: Emerging Technologies, 2019, 108, 167-181. | 3.9 | 42 |
| 22 | Youla-Kucera Control Structures for Switching. , 2018, , . | | 1 |
| 23 | Cooperative Systems for Autonomous Vehicles. Journal of Advanced Transportation, 2018, 2018, 1-1. | 0.9 | 1 |
| 24 | Fractional-order-based ACC/CACC algorithm for improving string stability. Transportation Research Part C: Emerging Technologies, 2018, 95, 381-393. | 3.9 | 46 |
| 25 | Online Feedforward/Feedback Structure Adaptation for Heterogeneous CACC Strings. , 2018, , . | | 3 |
| 26 | Parametric-based path generation for automated vehicles at roundabouts. Expert Systems With Applications, 2017, 71, 332-341. | 4.4 | 50 |
| 27 | Youla-Kucera based online closed-loop identification for longitudinal vehicle dynamics. , 2017, , . | | 0 |
| 28 | A time gap-based spacing policy for full-range car-following. , 2017, , . | | 6 |
| 29 | Automated global planner for cybernetic transportation systems. , 2016, , . | | 2 |
| 30 | Speed profile generation based on quintic Bézier curves for enhanced passenger comfort. , 2016, , . | | 16 |
| 31 | Using fractional calculus for Cooperative car-following Control. , 2016, , . | | 7 |
| 32 | Real-time planning for adjacent consecutive intersections. , 2016, , . | | 5 |
| 33 | Optimized trajectory planning for Cybernetic Transportation Systems. IFAC-PapersOnLine, 2016, 49, 1-6. | 0.5 | 1 |
| 34 | A Review of Motion Planning Techniques for Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1135-1145. | 4.7 | 1,047 |
| 35 | Handling Cut-In Vehicles in Strings of Cooperative Adaptive Cruise Control Vehicles. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2016, 20, 178-191. | 2.6 | 77 |
| 36 | An energy-saving speed profile algorithm for cybernetic transport systems. , 2015, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Description and technical specifications of cybernetic transportation systems: an urban transportation concept. , 2015, , . | | 3 |
| 38 | Introduction to the Special Issue on Intelligent and Cooperative Vehicles. Electronics (Switzerland), 2015, 4, 979-981. | 1.8 | 1 |
| 39 | A DRIVERLESS VEHICLE DEMONSTRATION ON MOTORWAYS AND IN URBAN ENVIRONMENTS. Transport, 2015, 30, 253-263. | 0.6 | 29 |
| 40 | Low speed hybrid generalized predictive control of a gasoline-propelled car. ISA Transactions, 2015, 57, 373-381. | 3.1 | 9 |
| 41 | Optimal energy consumption algorithm based on speed reference generation for urban electric vehicles. , 2015, , . | | 11 |
| 42 | Continuous curvature planning with obstacle avoidance capabilities in urban scenarios. , 2014, , . | | 71 |
| 43 | Low-speed cooperative car-following fuzzy controller for cybernetic transport systems. , 2014, , . | | 8 |
| 44 | Cooperative Adaptive Cruise Control in Real Traffic Situations. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 296-305. | 4.7 | 801 |
| 45 | Experimental Application of Hybrid Fractional-Order Adaptive Cruise Control at Low Speed. IEEE Transactions on Control Systems Technology, 2014, 22, 2329-2336. | 3.2 | 56 |
| 46 | Modeling cooperative and autonomous adaptive cruise control dynamic responses using experimental data. Transportation Research Part C: Emerging Technologies, 2014, 48, 285-300. | 3.9 | 665 |
| 47 | An auxiliary V2I network for road transport and dynamic environments. Transportation Research Part C: Emerging Technologies, 2013, 37, 145-156. | 3.9 | 13 |
| 48 | Cooperative controllers for highways based on human experience. Expert Systems With Applications, 2013, 40, 1024-1033. | 4.4 | 27 |
| 49 | On-line learning of a fuzzy controller for a precise vehicle cruise control system. Expert Systems With Applications, 2013, 40, 1046-1053. | 4.4 | 27 |
| 50 | Fractional Network-Based Control for Vehicle Speed Adaptation via Vehicle-to-Infrastructure Communications. IEEE Transactions on Control Systems Technology, 2013, 21, 780-790. | 3.2 | 17 |
| 51 | Introduction to the Special Issue on "New Trends towards Automatic Vehicle Control and Perception Systems" Sensors, 2013, 13, 5712-5719. | 2.1 | 7 |
| 52 | Control agents for autonomous vehicles in urban and highways scenarios. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 120-125. | 0.4 | 5 |
| 53 | A Reinforcement Learning Modular Control Architecture for Fully Automated Vehicles. Lecture Notes in Computer Science, 2012, , 390-397. | 1.0 | 3 |
| 54 | Low-Speed Longitudinal Controllers for Mass-Produced Cars: A Comparative Study. IEEE Transactions on Industrial Electronics, 2012, 59, 620-628. | 5.2 | 53 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Traffic jam driving with NMV avoidance. Mechanical Systems and Signal Processing, 2012, 31, 332-344. | 4.4 | 8 |
| 56 | Comparing Fuzzy and Intelligent PI Controllers in Stop-and-Go Manoeuvres. IEEE Transactions on Control Systems Technology, 2012, 20, 770-778. | 3.2 | 62 |
| 57 | Driving by Driverless Vehicles in Urban Environment. Lecture Notes in Computer Science, 2012, , 404-411. | 1.0 | 0 |
| 58 | Genetic optimization of a vehicle fuzzy decision system for intersections. Expert Systems With Applications, 2012, 39, 13148-13157. | 4.4 | 65 |
| 59 | Intelligent automatic overtaking system using vision for vehicle detection. Expert Systems With Applications, 2012, 39, 3362-3373. | 4.4 | 107 |
| 60 | A fuzzy aid rear-end collision warning/avoidance system. Expert Systems With Applications, 2012, 39, 9097-9107. | 4.4 | 83 |
| 61 | Vision-based active safety system for automatic stopping. Expert Systems With Applications, 2012, 39, 11234-11242. | 4.4 | 27 |
| 62 | Smooth path and speed planning for an automated public transport vehicle. Robotics and Autonomous Systems, 2012, 60, 252-265. | 3.0 | 105 |
| 63 | An Intelligent V2I-Based Traffic Management System. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 49-58. | 4.7 | 157 |
| 64 | An evolutionary tuned driving system for virtual car racing games: The AUTOPIA driver. International Journal of Intelligent Systems, 2012, 27, 217-241. | 3.3 | 17 |
| 65 | Study of Traffic Flow Controlled with Independent Agent-Based Traffic Signals. Lecture Notes in Computer Science, 2012, , 382-389. | 1.0 | 0 |
| 66 | Traffic Light Intelligent Regulation Using Infrastructure Located Sensors. Lecture Notes in Computer Science, 2012, , 398-403. | 1.0 | 2 |
| 67 | AUTOPIA Program Advances: How to Automate the Traffic?. Lecture Notes in Computer Science, 2012, , 374-381. | 1.0 | 3 |
| 68 | An approach to driverless vehicles in highways. , 2011, , . | | 5 |
| 69 | MAKING TRANSPORT SAFER: V2V-BASED AUTOMATED EMERGENCY BRAKING SYSTEM. Transport, 2011, 26, 290-302. | 0.6 | 16 |
| 70 | Automated On-Ramp Merging System for Congested Traffic Situations. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 500-508. | 4.7 | 201 |
| 71 | Power electric aiding controller for automated bus stopping. , 2011, , . | | 3 |
| 72 | Cascade Architecture for Lateral Control in Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 73-82. | 4.7 | 101 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Low speed control of an autonomous vehicle using a hybrid fractional order controller. , 2011, , . | | 11 |
| 74 | Cooperative Maneuvering in Close Environments Among Cybercars and Dual-Mode Cars. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 15-24. | 4.7 | 55 |
| 75 | Autonomous Pedestrian Collision Avoidance Using a Fuzzy Steering Controller. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 390-401. | 4.7 | 152 |
| 76 | Autonomous driving manoeuvres in urban road traffic environment: a study on roundabouts. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13795-13800. | 0.4 | 21 |
| 77 | Low Speed Control of an Autonomous Vehicle by Using a Fractional PI Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 15025-15030. | 0.4 | 14 |
| 78 | A fuzzy-rule-based driving architecture for non-player characters in a car racing game. Soft Computing, 2011, 15, 1617-1629. | 2.1 | 6 |
| 79 | Automatic lateral control for unmanned vehicles via genetic algorithms. Applied Soft Computing Journal, 2011, 11, 1303-1309. | 4.1 | 89 |
| 80 | Autonomous vehicle control systems for safe crossroads. Transportation Research Part C: Emerging Technologies, 2011, 19, 1095-1110. | 3.9 | 76 |
| 81 | Cartography For Cooperative Manoeuvres With Autonomous Land Vehicles. Journal of Navigation, 2011, 64, 141-155. | 1.0 | 4 |
| 82 | Longitudinal fuzzy control for autonomous overtaking. , 2011, , . | | 33 |
| 83 | Ultrasonic Sensors in Urban Traffic Driving-Aid Systems. Sensors, 2011, 11, 661-673. | 2.1 | 37 |
| 84 | Throttle and brake pedals automation for populated areas. Robotica, 2010, 28, 509-516. | 1.3 | 26 |
| 85 | Electro-hydraulic braking system for autonomous vehicles. International Journal of Automotive Technology, 2010, 11, 89-95. | 0.7 | 66 |
| 86 | Controller for Urban Intersections Based on Wireless Communications and Fuzzy Logic. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 243-248. | 4.7 | 132 |
| 87 | Clavileño: Evolution of an autonomous car. , 2010, , . | | 22 |
| 88 | Design and implementation of a neuro-fuzzy system for longitudinal control of autonomous vehicles. , 2010, , . | | 17 |
| 89 | An RFID-Based Intelligent Vehicle Speed Controller Using Active Traffic Signals. Sensors, 2010, 10, 5872-5887. | 2.1 | 86 |
| 90 | Model-free control techniques for Stop & Go systems. , 2010, , . | | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | Controller for urban intersections based on hybrid automaton. , 2010, , . | | 2 |
| 92 | Adelantamiento con Vehículos Autó3nomos en Carreteras de Doble Sentido. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 25-33. | 0.6 | 3 |
| 93 | Control Basado en PID Inteligentes: Aplicaci3n al Control Robusto de Velocidad en Entornos Urbanos. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 44-52. | 0.6 | 9 |
| 94 | Modularity, adaptability and evolution in the AUTOPIA architecture for control of autonomous vehicles. , 2009, , . | | 19 |
| 95 | Electric power controller for steering wheel management in electric cars. , 2009, , . | | 6 |
| 96 | Autonomous car fuzzy control modeled by iterative genetic algorithms. , 2009, , . | | 13 |
| 97 | A Frame for an Urban Traffic Control Architecture. Lecture Notes in Computer Science, 2009, , 399-407. | 1.0 | 0 |
| 98 | Safe Crossroads via Vehicle to Vehicle Communication. Lecture Notes in Computer Science, 2009, , 421-428. | 1.0 | 1 |
| 99 | Autonomous vehicle based in cooperative GPS and inertial systems. Robotica, 2008, 26, 627-633. | 1.3 | 100 |