APPENDIX – Publications on Autonomous Driving sorted by number of citations

Title	Year	Journal
Autonomous driving in urban environments: Boss and the Urban Challenge	2008	JOURNAL OF FIELD ROBOTICS Volume: 25 Issue: 8 Pages: 425-466 Published: AUG 2008
Vision-based intelligent vehicles: State of the art and perspectives	2000	Robotics and Autonomous Systems, Volume 32, Issue 1, 31 July 2000, Pages 1-16
AUTONOMOUS INTELLIGENT CRUISE CONTROL	1993	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY Volume: 42 Issue: 4 Pages: 657-672 Published: NOV 1993
Autonomous driving goes downtown	1998	IEEE INTELLIGENT SYSTEMS & THEIR APPLICATIONS Volume: 13 Issue: 6 Pages: 40-48 Published: NOV-DEC 1998
Modelling lane changing and merging in microscopic traffic simulation.	2002	Transportation Research: Part C. Oct2002, Vol. 10 Issue 5/6, p351. 21p. , Database: Business Source Complete
A Perception-Driven Autonomous Urban Vehicle	2008	JOURNAL OF FIELD ROBOTICS Volume: 25 Issue: 10 Pages: 727-774 Published: OCT 2008
Real-Time Motion Planning With Applications to Autonomous Urban Driving	2009	IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY Volume: 17 Issue: 5 Pages: 1105-1118 Published: SEP 2009
Road-Boundary Detection and Tracking Using Ladar Sensing.	2004	IEEE Transactions on Robotics & Automation. Jun2004, Vol. 20 Issue 3, p456-464. 9p. , Database: Business Source Complete
View-based Maps.	2010	International Journal of Robotics Research.Jul2010, Vol. 29 Issue 8, p941-957. 17p. DOI: 10.1177/0278364910370376. , Database: Business Source Complete
Implementation of Human-Like Driving Skills by Autonomous Fuzzy Behavior Control on an FPGA-Based Car-Like Mobile Robot.	2003	IEEE Transactions on Industrial Electronics. Oct2003, Vol. 50 Issue 5, p867-880. 14p. 76 Black and White Photographs, 15 Diagrams, 2 Charts, 7 Graphs. , Database: Business Source Complete
DGPS-based vehicle-to-vehicle cooperative collision warning: Engineering feasibility viewpoints	2006	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 7 Issue: 4 Pages: 415-428 Published: DEC 2006
Shared Understanding for Collaborative Control.	2005	IEEE Transactions on Systems, Man & Cybernetics: Part A. Jul2005, Vol. 35 Issue 4, p494-504. 11p. DOI: 10.1109/TSMCA.2005.850599. , Database: Business Source Complete
A Shape-independent Method for Pedestrian Detection With Far-Infrared Images.	2004	IEEE Transactions on Vehicular Technology. Nov2004, Vol. 53 Issue 6, p1679-1697. 19p. DOI: 10.1109/TVT.2004.834875. , Database: Business Source Complete
Lane-change fuzzy control in autonomous vehicles for the overtaking maneuver	2008	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 9 Issue: 3 Pages: 438-450 Published: SEP 2008
Three-feature based automatic lane detection algorithm (TFALDA) for autonomous driving	2003	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 4 Issue: 4 Pages: 219-225 Published: DEC 2003
Model based vehicle detection and tracking for autonomous urban driving	2009	AUTONOMOUS ROBOTS Volume: 26 Issue: 2-3 Pages: 123-139 Published: APR 2009
Visual-inertial navigation, mapping and localization: A scalable real-time causal approach.	2011	International Journal of Robotics Research. 04/01/2011, Vol. 30 Issue 4, p407-430. 24p. DOI: 10.1177/0278364910388963. , Database: Business Source Complete
Team Annie WAY's autonomous system for the 2007 DARPA Urban Challenge	2008	JOURNAL OF FIELD ROBOTICS Volume: 25 Issue: 9 Special Issue: SI Pages: 615-639 Published: SEP 2008
Image Processing and Behavior Planning for Intelligent Vehicles.	2003	IEEE Transactions on Industrial Electronics. Feb2003, Vol. 50 Issue 1, p62. 16p. 34 Black and White Photographs, 5 Diagrams, 5 Graphs. , Database: Business Source Complete
TOWARD AUTONOMOUS DRIVING – THE CMU NAVLAB .1. PERCEPTION	1991	IEEE EXPERT-INTELLIGENT SYSTEMS & THEIR APPLICATIONS Volume: 6 Issue: 4 Pages: 31-42 Published: AUG 1991

Vision meets robotics: The KITTI dataset.	2013	International Journal of Robotics Research. Sep2013, Vol. 32 Issue 11, p1231-1237. 7p. DOI: 10.1177/0278364913491297. , Database: Business Source Complete
A Comparative Study of Vision-Based Lateral Control Strategies for Autonomous Highway Driving.	1999	International Journal of Robotics Research. May99, Vol. 18 Issue 5, p442. 12p. 2 Black and White Photographs, 9 Diagrams. , Database: Business Source Complete
Semi-autonomous adaptive cruise control systems	2002	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY Volume: 51 Issue: 5 Pages: 1186-1192 Published: SEP 2002
Learning Long-Range Vision for Autonomous Off-Road Driving	2009	JOURNAL OF FIELD ROBOTICS Volume: 26 Issue: 2 Pages: 120-144 Published: FEB 2009
A color vision-based lane tracking system for autonomous driving on unmarked roads	2004	AUTONOMOUS ROBOTS Volume: 16 Issue: 1 Pages: 95-116 Published: JAN 2004
A collaborative driving system based on multiagent modelling and simulations.	2005	Transportation Research: Part C. Aug2005, Vol. 13 Issue 4, p320-345. 26p. DOI: 10.1016/j.trc.2005.07.004. , Database: Business Source Complete
Path Planning for Autonomous Vehicles in Unknown Semi-structured Environments.	2010	International Journal of Robotics Research. Apr2010, Vol. 29 Issue 5, p485-501. 17p. DOI: 10.1177/0278364909359210. , Database: Business Source Complete
Color machine vision for autonomous vehicles	1998	Engineering Applications of Artificial Intelligence, Volume 11, Issue 2, 1 April 1998, Pages 245-256
Multisensor obstacle detection and tracking	2000	IMAGE AND VISION COMPUTING Volume: 18 Issue: 5 Pages: 389-396 Published: APR 2000
Tradeoffs Between Directed and Autonomous Driving on the Mars Exploration Rovers.	2007	International Journal of Robotics Research. Jan2007, Vol. 26 Issue 1, p91-104. 14p. 2 Diagrams, 2 Charts, 1 Graph. DOI: 10.1177/0278364907073777. , Database: Business Source Complete
Systems for safety and autonomous behavior in cars: The DARPA Grand Challenge experience	2007	PROCEEDINGS OF THE IEEE Volume: 95 Issue: 2 Pages: 397-412 Published: FEB 2007
Robust automatic parallel parking in tight spaces via fuzzy logic	2005	Robotics and Autonomous Systems, Volume 51, Issues 2–3, 31 May 2005, Pages 111-127
Vehicle Recognition and Tracking from Road Image Sequences	1999	IEEE Transactions on Vehicular Technology. Jan1999, Vol. 48 Issue 1, p301. 18p. 8 Black and White Photographs, 3 Diagrams, 5 Charts, 6 Graphs. , Database: Business Source Complete
A system for semi-autonomous tractor operations	2002	AUTONOMOUS ROBOTS Volume: 13 Issue: 1 Pages: 87-104 Published: JUL 2002
VISUAL CONTROL OF AN AUTONOMOUS VEHICLE (BART) – THE VEHICLE-FOLLOWING PROBLEM	1991	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY Volume: 40 Issue: 3 Pages: 654-662 Published: AUG 1991
Power-steering control architecture for automatic driving	2005	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 6 Issue: 4 Pages: 406-415 Published: DEC 2005
Perception for collision avoidance and autonomous driving	2003	MECHATRONICS Volume: 13 Issue: 10 Pages: 1149-1161 Published: DEC 2003
Perception for collision avoidance and autonomous driving	2003	Mechatronics, Volume 13, Issue 10, December 2003, Pages 1149-1161
Parallel and diagonal parking in nonholonomic autonomous vehicles	2001	Engineering Applications of Artificial Intelligence, Volume 14, Issue 4, August 2001, Pages 419-434
Model-predictive active steering and obstacle avoidance for autonomous ground vehicles	2009	Control Engineering Practice, Volume 17, Issue 7, July 2009, Pages 741-750
Model-Based Probabilistic Collision Detection in Autonomous Driving	2009	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 10 Issue: 2 Pages: 299-310 Published: JUN 2009
A Predictive Controller for Autonomous Vehicle Path Tracking	2009	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 10 Issue: 1 Pages: 92-102 Published: MAR 2009
A DISCRIMINATING FEATURE TRACKER FOR VISION-BASED AUTONOMOUS DRIVING	1994	IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION Volume: 10 Issue: 6 Pages: 769-775 Published: DEC 1994
Off-road path and obstacle detection using decision networks and stereo vision	2007	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 8 Issue: 4 Pages: 607-618 Published: DEC 2007
Autonomous driving in urban environments: approaches, lessons and challenges	2010	PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES Volumen: 368 Número: 1928 Páginas: 4649-4672 Fecha de publicación: OCT 13 2010
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Relative 3D-state estimation for autonomous visual guidance of road vehicles	1991	Robotics and Autonomous Systems, Volume 7, Issues 2–3, August 1991, Pages 113-123
Technical Feasibility of Advanced Driver Assistance Systems (ADAS) for Road Traffic Safety.	2005	Transportation Planning & Technology. Jun2005, Vol. 28 Issue 3, p167-187. 21p. DOI: 10.1080/03081060500120282. , Database: Business Source Complete
Maneuver-Based Trajectory Planning for Highly Autonomous Vehicles on Real Road With Traffic and Driver Interaction	2010	THEORETICAL BIOLOGY AND MEDICAL MODELLING Volume: 7 Article Number: 3 Published: JAN 21 2010
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Controller for Urban Intersections Based on Wireless Communications and Fuzzy Logic	2010	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 11 Issue: 1 Pages: 243-248 Published: MAR 2010
Intelligent route planning for fast autonomous vehicles operating in a large natural terrain	2002	Robotics and Autonomous Systems, Volume 40, Issue 1, 31 July 2002, Pages 1-24
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A transportable neural-network approach to autonomous vehicle following	1998	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY Volume: 47 Issue: 2 Pages: 694-702 Published: MAY 1998
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Autonomous Pedestrian Collision Avoidance Using a Fuzzy Steering Controller	2011	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 12 Issue: 2 Special Issue: SI Pages: 390-401 Published: JUN 2011
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FhG-Co-driver: From map-guided automatic driving by machine vision to a cooperative driver support	1995	Mathematical and Computer Modelling, Volume 22, Issues 4–7, August–October 1995, Pages 185-212
Autonomous vehicle navigation using evolutionary reinforcement learning	1998	European Journal of Operational Research, Volume 108, Issue 2, 16 July 1998, Pages 306-318
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A new fuzzy robust dynamic controller for autonomous vehicles with nonholonomic constraints	2005	Robotics and Autonomous Systems, Volume 52, Issues 2–3, 31 August 2005, Pages 115-131
Autonomous steering control for electric vehicles using nonlinear state feedback control	2005	Nonlinear Analysis: Theory, Methods & Applications, Volume 63, Issues 5–7, 30 November–15 December 2005, Pages e2257-e2268
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Development of an autonomous navigation system for an outdoor vehicle	1996	Control Engineering Practice, Volume 4, Issue 4, April 1996, Pages 499-505
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Autonomous road vehicle guidance from Autobahnen to narrow curves	1998	IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION Volume: 14 Issue: 5 Pages: 810-815 Published: OCT 1998
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Broadband vehicle-to-vehicle communication using an extended autonomous cruise control sensor	2005	MEASUREMENT SCIENCE & TECHNOLOGY Volume: 16 Issue: 6 Pages: 1363-1373 Published: JUN 2005
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Navigation Function-Based Control of Multiple Wheeled Vehicles	2011	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 58 Issue: 5 Pages: 1896-1906 Published:MAY 2011
Longitudinal and lateral control and supervision of autonomous intelligent vehicles	1997	Control Engineering Practice, Volume 5, Issue 11, November 1997, Pages 1599-1605
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Adaptive robust control of an omnidirectional mobile platform for autonomous service robots in polar coordinates	2008	JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS Volume: 51 Issue: 4 Pages: 439-460 Published: APR 2008
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Autonomous vehicles control in the VisLab Intercontinental Autonomous Challenge	2012	Annual Reviews in Control, Volume 36, Issue 1, April 2012, Pages 161-171
Design and Performance Evaluation of Mixed Manual and Automated Control Traffic	2000	IEEE Transactions on Systems, Man & Cybernetics: Part A , 2000; Vol. 30 Issue 6, 661-673, 13p, Database: Ergonomics Abstracts
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Development of a longitudinal and lateral driver model for autonomous vehicle control	2004	International Journal of Vehicle Design Volume: 36 Issue: 1 Pages: 50-65 Published: 2004
Pushing the limits: From lane keeping to autonomous racing	2011	Annual Reviews in Control, Volume 35, Issue 1, April 2011, Pages 137-148
Ontology-based methods for enhancing autonomous vehicle path planning	2004	Robotics and Autonomous Systems, Volume 49, Issues 1–2, 30 November 2004, Pages 123-133
Environment-Detection-and-Mapping Algorithm for Autonomous Driving in Rural or Off-Road Environment	2012	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 13 Issue: 2 Pages: 974-982 Published: JUN 2012
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Road profile recognition for autonomous car navigation and Navstar GPS support	2003	IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS Volume: 39 Issue: 1 Pages: 2-12 Published: JAN 2003
Robust platoon-stable controller design for autonomous intelligent vehicles	1995	Mathematical and Computer Modelling, Volume 22, Issues 4–7, August–October 1995, Pages 287-303
Cooperative driving: An ant colony system for autonomous intersection management.	2012	Applied Intelligence, Vol 37(2), Sep, 2012. pp. 207-222
Car Speak: A Content-Centric Network for Autonomous Driving	2012	ACM SIGCOMM COMPUTER COMMUNICATION REVIEW Volume: 42 Issue: 4 Pages: 259-270 Published:OCT 2012
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Neural speed control for autonomous road vehicles	1996	Control Engineering Practice, Volume 4, Issue 4, April 1996, Pages 507-512
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