

CITATION REPORT

List of articles citing

On-road vehicle detection: a review

DOI: 10.1109/tpami.2006.104

IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 694-711.

Source: <https://exaly.com/paper-pdf/39889164/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
761	Robust Video-Based Surveillance by Integrating Target Detection with Tracking.		10
760	An Oriented-Contour Point Based Voting Algorithm for Vehicle Type Classification. 2006,		35
759	Monocular Autonomy Following Vehicle. 2006,		2
758	Vehicle tracking using stochastic fusion-based particle filter. 2007,		1
757	Obstacle detection from IPM and super-homography. 2007,		11
756	Vehicle detection using normalized color and edge map. 2007, 16, 850-64		149
755	Near Zone Pedestrian Detection using a Low-Resolution FIR Sensor. 2007,		7
754	An Approach to On-Road Vehicle Detection, Description and Tracking. 2007,		4
753	Symmetry-Aided Particle Filter for Vehicle Tracking. 2007,		5
752	Radar-Vision Based Vehicle Recognition with Evolutionary Optimized and Boosted Features. 2007,		14
751	An algorithm based on SVM ensembles for motorcycle recognition. 2007,		2
750	. 2007,		14
749	A fast coarse-to-fine vehicle logo detection and recognition method. 2007,		22
748	An improved wavelet feature extraction approach for vehicle detection. 2007,		
747	A Global Optimization Algorithm for Real-Time On-Board Stereo Obstacle Detection Systems. 2007,		28
746	A review of different object recognition methods for the application in driver assistance systems. 2007,		5
745	Enhance Emergency Services by Use of Novel Road Management System in Wireless City. 2007,		1

744	Vehicle Detection under Various Lighting Conditions by Incorporating Particle Filter. 2007 ,	40
743	Simultaneous Contrast Restoration and Obstacles Detection: First Results. 2007 ,	2
742	Vision-based motion planning for an autonomous motorcycle on ill-structured roads. 2007 , 23, 197-212	26
741	Outlier rejection for cameras on intelligent vehicles. 2008 , 29, 828-840	5
740	Initialization of Model-Based Vehicle Tracking in Video Sequences of Inner-City Intersections. 2008 , 80, 211-225	50
739	An approach to detecting abnormal vehicle events in complex factors over highway surveillance video. 2008 , 51, 199-208	7
738	On-road vehicle detection and tracking based on road context and the ambient lighting adaptive framework. 2008 , 18, 283-295	
737	A Day and Night Vision MOS Imager With Robust Photonic-Crystal-Based RGB-and-IR. 2008 , 55, 754-759	41
736	Intelligent Vehicles. 2008 , 1175-1198	14
735	Optical flow and advection on 2-Riemannian manifolds: a common framework. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 1081-92	13.3 17
734	A Cascade of Boosted Generative and Discriminative Classifiers for Vehicle Detection. 2008 , 2008,	54
733	A particle filtering algorithm for tracking moving target under Clutter. 2008 ,	
732	A self-supervised architecture for moving obstacles classification. 2008 ,	
731	Low-power Vehicle Speed Estimation Algorithm based on WSN. 2008 ,	9
730	Sensor Fusion on an Embedded System for Traffic Data Analysis - ETRADA-V System. 2008 ,	3
729	Vision-based vehicle event detection through visual rhythm analysis. 2008 ,	1
728	Video based Traffic Congestion Prediction on an Embedded System. 2008 ,	9
727	On Integration of Features and Classifiers for Robust Vehicle Detection. 2008 ,	6

726	Mobile robot localization and object pose estimation using optical encoder, vision and laser sensors. 2008,		3
725	Vehicle detection by edge-based candidate generation and appearance-based classification. 2008,		30
724	A novel region of interest selection approach for traffic sign recognition based on 3D modelling. 2008,		11
723	Automatic Vehicle Detection Using Local Features A Statistical Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2008 , 9, 83-96	6.1	82
722	Multi-class Vehicle Type Recognition System. <i>Lecture Notes in Computer Science</i> , 2008 , 228-239	0.9	33
721	Moving objects detection for mobile mapping. 2008,		
720	Vehicle rear detection in images with Generalized Radial-Basis-Function classifiers. 2008,		4
719	Constructing visual phrases for effective and efficient object-based image retrieval. 2008 , 5, 1-19		17
718	ImprovCV: Open component based automotive vision. 2008,		0
717	Probabilistic scheme for laser based motion detection. 2008,		7
716	A two stage detection module for traffic signs. 2008,		7
715	Comprehensive Vehicle Motion Analysis using Optical Flow Optimization Based on Pulse-Coupled Neural Network. 2008 , 41, 158-163		1
714	. 2009,		0
713	An Algorithm Based on Imbalance Samples for Vehicle Recognition. 2009,		
712	Driving Situations Understanding through Content Rhythm Analysis. 2009,		
711	. 2009,		4
710	Research on Intelligent Transportation Vehicle Detection and Tracking Algorithms Based on Video. 2009,		2
709	View independent recognition of human-vehicle interactions using 3-D models. 2009,		2

708	An improved adaboost learning scheme using LDA features for object recognition. 2009,		4
707	. 2009,		
706	. 2009,		0
705	Vision-based vehicle detection and tracking algorithm design. 2009, 48, 127201		12
704	Vehicle detection system design based on stereo vision sensors. 2009, 10, 373-379		9
703	Improving target detection by coupling it with tracking. 2009, 20, 205-223		15
702	Optic flow from unstable sequences through local velocity constancy maximization. 2009, 27, 579-587		15
701	Real-Time Highway Traffic Condition Assessment Framework Using Vehicle Infrastructure Integration (VII) With Artificial Intelligence (AI). <i>IEEE Transactions on Intelligent Transportation Systems,</i> 2009, 10, 615-627	6.1	75
700	. 2009,		8
699	Detection of Tire-Road Contact Point for Vehicle Position Estimate Considering Shape Distortion in a Circular Fisheye Image. 2009,		1
698	Self lane assignment using egocentric smart mobile camera for intelligent GPS navigation. 2009,		
697	Obstacle Detection and Tracking for the Urban Challenge. <i>IEEE Transactions on Intelligent Transportation Systems,</i> 2009, 10, 475-485	6.1	80
696	. 2009,		
695	A real-time moving object detection using wavelet-based neural network. 2009,		
694	Moving object classification using horizontal laser scan data. 2009,		13
693	An evidential fusion architecture for advanced driver assistance. 2009,		3
692	Real-Time Illegal Parking Detection in Outdoor Environments Using 1-D Transformation. 2009, 19, 1014-1024		34
691	Active learning based robust monocular vehicle detection for on-road safety systems. 2009,		24

690	Car recognition based on back lights and rear view features. 2009 ,	14
689	. 2009 , 19, 1612-1622	10
688	. 2009 ,	0
687	Vision-based railroad track extraction using dynamic programming. 2009 ,	34
686	Framework for performance evaluation of face, text, and vehicle detection and tracking in video: data, metrics, and protocol. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 319-336	301
685	. 2010 ,	
684	3D Terrain Reconstruction for Patrol Robot Using Point Grey Research Stereo Vision Cameras. 2010	1
683	Track-based self-supervised classification of dynamic obstacles. 2010 , 29, 219-233	3
682	Haar-like features with optimally weighted rectangles for rapid object detection. 2010 , 43, 160-172	58
681	Temporal consistent real-time stereo for intelligent vehicles. 2010 , 31, 1226-1238	18
680	AdaBoost-based face detection for embedded systems. 2010 , 114, 1116-1125	34
679	Adaptive pyramid mean shift for global real-time visual tracking. 2010 , 28, 424-437	38
678	Unsupervised classification of dynamic obstacles in urban environments. 2010 , 27, 450-472	8
677	Pedestrian Detection and Tracking Using Three-dimensional LADAR Data. 2010 , 29, 1516-1528	64
676	Vehicle detection under varying poses using Conditional Random Fields. 2010 ,	4
675	Vehicle detection and tracking for visual understanding of road environments. 2010 , 28, 847-860	3
674	Perception advances in outdoor vehicle detection for automatic cruise control. 2010 , 28, 765-779	9
673	Development of a collaborative vehicle collision avoidance system. 2010 ,	3

672	Real-time vehicle detection in urban traffic using AdaBoost. 2010,		
671	Fast Covariance Matching Based on Genetic Algorithm. 2010,		
670	Identification system of the type of vehicle. 2010,		3
669	Combining dark channel prior and color cues for road following in outdoor environments. 2010,		
668	Visual classification of coarse vehicle orientation using Histogram of Oriented Gradients features. 2010,		33
667	Increasing driving safety with a multiple vehicle detection and tracking system using ongoing vehicle shadow information. 2010,		10
666	Vision-based traffic data collection sensor for automotive applications. 2010, 10, 860-75		17
665	Simultaneous localization and object detection using an a-contrario approach. 2010,		1
664	Improved video-based vehicle detection methodology. 2010,		
663	. 2010,		
662	Study on the Method of Measuring the Preceding Vehicle Distance Based on Trilinear Method. 2010,		3
661	On-road vehicle detection by cascaded classifiers. 2010,		9
660	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010, 11, 453-462	6.1	150
659	Monocular depth cue fusion for image segmentation and grouping in outdoor navigation. 2010,		1
658	Preceding vehicle detection using Histograms of Oriented Gradients. 2010,		21
657	Notice of Retraction: Improvement of lane marks extraction technique under different road conditions. 2010,		
656	Research on Key Technologies for Urban Unmanned Intelligent Vehicle. 2010,		2
655	Vision-based autonomous navigation in indoor environments. 2010,		1

654	Survey of pedestrian detection for advanced driver assistance systems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 1239-58	13.3	596
653	TerraMax Vision at the Urban Challenge 2007. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 194-205	6.1	44
652	On-road vehicle detection during dusk and at night. 2010 ,		24
651	On-road vehicle tracking using deformable object model and particle filter with integrated likelihoods. 2010 ,		25
650	Understanding Transit Scenes: A Survey on Human Behavior-Recognition Algorithms. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 206-224	6.1	178
649	Estimating surrounding vehicles' pose using computer vision. 2010 ,		17
648	Road obstacle classification with attention windows. 2010 ,		4
647	FPGA-based embedded speed limit enforcement system on freeway. 2010 ,		
646	Mitigation of Visibility Loss for Advanced Camera-Based Driver Assistance. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 474-484	6.1	38
645	A method for the reproduction of vehicle test drives for the simulation based evaluation of image processing algorithms. 2010 ,		7
644	. 2010 ,		1
643	Self-calibrated multiple-lane detection system. 2010 ,		4
642	A Channel Awareness Vehicle Detector. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 339-347	6.1	8
641	CUDA implementation of belief propagation for stereo vision. 2010 ,		2
640	Acoustic signal based feature extraction for vehicular classification. 2010 ,		8
639	An Object Region Extraction Approach Based on Interest Pixel Detection and Inner Filling Strategy. 2010 ,		
638	Neural Network Approach for the Identification System of the Type of Vehicle. 2010 ,		3
637	Vehicle detection using an extended Hidden Random Field model. 2011 ,		22

636	Monocular model-based 3D vehicle tracking for autonomous vehicles in unstructured environment. 2011,		26
635	Vision-based vehicle detection for nighttime with discriminately trained mixture of weighted deformable part models. 2011,		17
634	Stereo-vision based free space and obstacle detection with structural and traversability analysis using probabilistic volume polar grid map. 2011,		3
633	Vehicle detection using tail light segmentation. 2011,		17
632	Vision-Based Distance Estimation for Multiple Vehicles Using Single Optical Camera. 2011,		9
631	Real-Time On-Road Vehicle Detection Combining Specific Shadow Segmentation and SVM Classification. 2011,		8
630	A review of advanced and practical lithium battery materials. 2011, 21, 9938		830
629	Integrated position and motion tracking method for online multi-vehicle tracking-by-detection. 2011, 50, 077203		3
628	A Method Integrating Human Visual Attention and Consciousness of Radar and Vision Fusion for Autonomous Vehicle Navigation. 2011,		8
627	Real-time vehicle detection based on Haar features and Pairwise Geometrical Histograms. 2011,		1
626	Integrating millimeter wave radar with a monocular vision sensor for on-road obstacle detection applications. 2011, 11, 8992-9008		60
625	A Real-Time Vision System for Nighttime Vehicle Detection and Traffic Surveillance. 2011, 58, 2030-2044		115
624	A Review of Computer Vision Techniques for the Analysis of Urban Traffic. <i>IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 920-939</i>	6.1	334
623	Vision-based detection and tracking of vehicles to the rear with perspective correction in low-light conditions. 2011, 5, 1-10		22
622	Incremental training of a detector using online sparse eigendecomposition. 2011, 20, 213-26		10
621	. <i>IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 977-989</i>	6.1	17
620	Data-Driven Intelligent Transportation Systems: A Survey. <i>IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1624-1639</i>	6.1	857
619	Tracking highly correlated targets through statistical multiplexing. 2011, 29, 803-817		1

618	Obstacle-Free Pathway Detection by Means of Depth Maps. 2011 , 63, 115-129	8
617	IMAPCAR: A 100 GOPS In-Vehicle Vision Processor Based on 128 Ring Connected Four-Way VLIW Processing Elements. 2011 , 62, 5-16	17
616	Wheeled vehicles velocity updating by navigating on outdoor terrains. 2011 , 20, 1097-1109	2
615	A robust approach for multiple vehicles tracking using layered particle filter. 2011 , 65, 609-618	12
614	Part-based on-road vehicle detection using hidden random field. 2011 , 54, 2522-2529	
613	Specific vehicle detection and tracking in road environment. 2011 ,	4
612	Hardware-in-the-loop testing of computer vision based driver assistance systems. 2011 ,	18
611	Embedded multi-sensors objects detection and tracking for urban autonomous driving. 2011 ,	2
610	Shape Template Based Side-View Car Detection Algorithm. 2011 ,	5
609	A comparison of FFS+LAC with AdaBoost for training a vehicle localizer. 2011 ,	1
608	Adaptive traffic signal control system using camera sensor and embedded system. 2011 ,	14
607	An intelligent vision-based vehicle detection and tracking system for automotive applications. 2011 ,	5
606	The Autotrix: Design and Implementation of an Autonomous Urban Driving System. 2011 , 403-408, 3884-3891	
605	Color Image Stereo Vision Obstacle Detection Based on Phase Congruency. 2011 , 58-60, 2068-2073	
604	Stereo vision Based vehicle detection using a road feature and disparity histogram. 2011 , 50, 027004	27
603	Vehicle Detection Based on Perspective Transformation Using Rear-View Camera. 2011 , 2011, 1-9	7
602	Far infrared pedestrian detection and tracking for night driving. 2011 , 29, 495-505	20
601	Car-pose detection using Randomized WLD. 2011 ,	

600	The cyber-physical bike. 2011,	21
599	Vision-based finger detection, tracking, and event identification techniques for multi-touch sensing and display systems. 2011, 11, 6868-92	12
598	On-Road Vehicle Detection Based on Color Segmentation and Tracking Using Harris-SIFT. 2012, 433-440, 5334-5338	2
597	Improved Vision Based Driving Space Analysis by Condensation of Image Data. 2012, 605-607, 2260-2264	
596	Efficient Data Association for Multiple Vehicles Tracking. 2012, 263-266, 2426-2431	
595	Onboard vehicle detection and tracking using boosted Gabor descriptor and sparse representation. 2012, 48, 995-997	5
594	Real-time pedestrian learning-tracking with information fusion. 2012,	
593	. 2012,	4
592	Fuzzy logic based driving behavior monitoring using hidden Markov models. 2012,	10
591	Concerning the applicability of computer graphics for the evaluation of image processing algorithms. 2012,	10
590	Road traffic detection using wireless noise sensors. 2012,	1
589	SVM-instance based approach to improve QoS parameters for time critical applications in WSN. 2012,	
588	Real-time vehicle detection with a single camera using shadow segmentation and temporal verification. 2012,	1
587	Real-time on-road vehicle detection algorithm based on monocular vision. 2012,	1
586	The Research and Implementation of Parallel In-Vehicle Vision System Based on Multi-Core Processors. 2012, 224, 529-532	
585	An autonomous restaurant service robot with high positioning accuracy. 2012, 39, 271-281	28
584	Video Forensics. 2012, 327-342	0
583	Fast Covariance Matching With Fuzzy Genetic Algorithm. 2012, 8, 148-157	24

582	Vision-Based Vehicle Detection System With Consideration of the Detecting Location. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 1243-1252	6.1	91
581	Toward Real-Time Vehicle Detection Using Stereo Vision and an Evolutionary Algorithm. 2012 ,		6
580	Symmetry-based monocular vehicle detection system. 2012 , 23, 831-842		79
579	Vision-based vehicle detection and inter-vehicle distance estimation for driver alarm system. 2012 , 19, 388-393		14
578	Design of high-speed support vector machine circuit for driver assistance system. 2012 ,		
577	Fast obstacle detection using targeted optical flow. 2012 ,		3
576	Reference image-independent fault detection in transportation camera systems for nighttime scenes. 2012 ,		4
575	Scale change and TTC filter for longitudinal vehicle control based on monocular video. 2012 ,		4
574	Real-time vehicle detection using parts at intersections. 2012 ,		26
573	Vehicle Detection Using Mixture of Deformable Parts Models: Static and Dynamic Camera. 2012 ,		8
572	Vehicle detection using discriminatively trained part templates with variable size. 2012 ,		5
571	. 2012 ,		8
570	A wheel-based side-view car detection using snake algorithm. 2012 ,		2
569	Approaching car detection via clustering of vertical-horizontal line scanning optical edge flow. 2012 , ,		3
568	Omni-directional detection and tracking of on-road vehicles using multiple horizontal laser scanners. 2012 ,		9
567	Vehicle Detection Based on Binocular Stereovision and Edge Extraction. 2012 , 190-191, 1090-1093		
566	Real-time obstacle detection based on stereo vision for automotive applications. 2012 ,		9
565	Embedded smart sensor for outdoor parking lot lighting control. 2012 ,		2

564	Design of high-performance pedestrian and vehicle detection circuit using Haar-like features. 2012,		3
563	References. 2012, 796-844		
562	Video-based on-road driving safety system with lane detection and vehicle detection. 2012,		3
561	A parallel algorithm for change detection. 2012,		3
560	Moving vehicle detection and tracking in unstructured environments. 2012,		24
559	Machine-vision based preceding vehicle detection algorithm: A review. 2012,		3
558	Semantic-based road environment recognition in mixed traffic for intelligent vehicles and advanced driver assistance systems. 2012,		4
557	Traffic jam driving with NMV avoidance. 2012, 31, 332-344		7
556	Real-Time Vehicle Detection and Tracking System in Street Scenarios. 2012, 592-599		1
555	Design of unified support vector machine circuit for pedestrians and cars detection. 2012,		
554	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 655-670	6.1	34
553	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 748-758	6.1	104
552	Making Vehicles Transparent Through V2V Video Streaming. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 930-938	6.1	75
551	Lane departure and front collision warning using a single camera. 2012,		19
550	Multi-view vehicle detection in traffic surveillance combining HOG-HCT and deformable part models. 2012,		3
549	Single Camera Vehicle Detection Using Edges and Bag-of-Features. <i>Lecture Notes in Electrical Engineering</i> , 2012, 135-143	0.2	3
548	Intelligent Vehicles as the Robotic Applications. 2012, 48, 105-114		28
547	Efficient Stixel-based object recognition. 2012,		33

546	Integration of Face Detection and User Identification with Visual Speech Recognition. <i>Lecture Notes in Computer Science</i> , 2012 , 479-487	0.9	1
545	Obstacle detection using sparse stereovision and clustering techniques. 2012 ,		13
544	Autonomous Driving: Context and State-of-the-Art. 2012 , 1271-1310		29
543	A Vehicle Detection Algorithm Based on Compressive Sensing and Background Subtraction. 2012 , 1, 480-485		9
542	A system for real-time detection and tracking of vehicles from a single car-mounted camera. 2012 ,		65
541	Real-Time Vehicle Detection using a Single Rear Camera for a Blind Spot Warning System. 2012 , 5, 146-153		4
540	Robust detection of preceding vehicles in crowded traffic conditions. 2012 , 13, 671-678		7
539	Intelligent automatic overtaking system using vision for vehicle detection. 2012 , 39, 3362-3373		80
538	Vehicle detection and tracking under various lighting conditions using a particle filter. 2012 , 6, 1		38
537	Moving object detection with laser scanners. 2013 , 30, 17-43		74
536	Looking at Vehicles on the Road: A Survey of Vision-Based Vehicle Detection, Tracking, and Behavior Analysis. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1773-1795	6.1	544
535	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1597-1608	6.1	43
534	The structure and traffic flow anatomy of the planet-scale urban vehicular mobility. 2013 , 3, 13-23		
533	A Fast Evolutionary Algorithm for Real-Time Vehicle Detection. 2013 , 62, 2453-2468		28
532	Road Geometry Classification by Adaptive Shape Models. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 459-468	6.1	16
531	Vehicle Detection Using Probabilistic Fusion. 2013 , 38, 2693-2701		0
530	Real-time obstacle detection by road plane segmentation. 2013 ,		1
529	A novel particle filter implementation for a multiple-vehicle detection and tracking system using tail light segmentation. 2013 , 11, 577-585		8

528	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1231-1241	6.1	24
527	NEW VEHICLE DETECTION ALGORITHM USING SYMMETRY SEARCH AND GA-BASED SVM. 2013 , 27, 1355003		3
526	Robust visual tracking using discriminative stable regions and K-means clustering. <i>Neurocomputing</i> , 2013 , 111, 131-143	5.4	5
525	Split Covariance Intersection Filter: Theory and Its Application to Vehicle Localization. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1860-1871	6.1	36
524	A left-turn driving aid using projected oncoming vehicle paths with augmented reality. 2013 ,		24
523	A survey of vision-based vehicle detection and tracking techniques in ITS. 2013 ,		16
522	Multi-feature Vehicle Detection Using Feature Selection. 2013 ,		
521	Robust lane localization using multiple cues on the road. 2013 ,		1
520	Vehicle detection method based on active basis model and symmetry in ITS. 2013 ,		
519	On-road vehicle and pedestrian detection using improved codebook model. 2013 ,		1
518	The prospect of smart cars: Intelligent structure and human-machine interaction. 2013 ,		0
517	Co-training algorithm based on on-line boosting for vehicle tracking. 2013 ,		2
516	Vision-based parking assistance system for leaving perpendicular and angle parking lots. 2013 ,		4
515	MCMC particle filter-based vehicle tracking method using multiple hypotheses and appearance model. 2013 ,		3
514	Design of vehicle detection methods with OpenCL programming on multi-core systems. 2013 ,		1
513	Feature-based monocular vehicle turn rate estimation from a moving platform. 2013 ,		1
512	On-road approaching motorcycle detection and tracking techniques: A survey. 2013 ,		1
511	Visible-infrared fusion schemes for road obstacle classification. 2013 , 35, 180-192		10

510	Real-time vision-based blind spot warning system: Experiments with motorcycles in daytime/nighttime conditions. 2013 , 14, 113-122		12
509	Integrated real-time vision-based preceding vehicle detection in urban roads. <i>Neurocomputing</i> , 2013 , 116, 144-149	5.4	15
508	Log-Gabor filters for image-based vehicle verification. 2013 , 22, 2286-95		54
507	A survey of appearance models in visual object tracking. 2013 , 4, 1-48		374
506	Random-Walker Monocular Road Detection in Adverse Conditions Using Automated Spatiotemporal Seed Selection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 527-538 ^{6.1}		13
505	On-road vehicle detection method based on multi-scale active basis model. 2013 ,		
504	Traffic scenes invariant vehicle detection. 2013 ,		1
503	Urban Traffic Simulators for Intelligent Transportation Systems. 2013 , 46, 309-314		3
502	A HOG Feature and SVM Based Method for Forward Vehicle Detection with Single Camera. 2013 ,		16
501	Probabilistic Integration of Intensity and Depth Information for Part-Based Vehicle Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1896-1906	6.1	9
500	CADAS: A multimodal advanced driver assistance system for normal urban streets based on road context understanding. 2013 ,		5
499	Vision-Based Method for Forward Vehicle Detection and Tracking. 2013 ,		6
498	Driver's Seat Belt Detection in Crossroad Based on Gradient Orientation. 2013 ,		4
497	Real-time vehicle detection using equi-height mosaicking image. 2013 ,		1
496	IMilePost: Embedded Solution for Dangerous Road Situation Warnings. 2013 ,		1
495	Robust vehicle detection under various environmental conditions using an infrared thermal camera and its application to road traffic flow monitoring. 2013 , 13, 7756-73		31
494	Locally discriminative stable model for visual tracking with clustering and principle component analysis. 2013 , 7, 151-162		4
493	Robust lane sensing and departure warning under shadows and occlusions. 2013 , 13, 3270-98		23

492	Multiclass Vehicle Tracking Based on Local Feature. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 137-144.	2	3
491	Vehicle re-identification collaborating visual and temporal-spatial network. 2013 ,		3
490	A Multi-Feature Fusion Method for Forward Vehicle Detection with Single Camera. 2013 , 321-324, 998-1004		1
489	Study on Detection of Preceding Vehicles Based on Computer Vision. 2013 , 333-335, 912-915		1
488	A new method for vehicle detection using MexicanHat wavelet and moment invariants. 2013 ,		2
487	High-performance on-road vehicle detection in monocular images. 2013 ,		11
486	Real-time monocular ranging by Bayesian triangulation. 2013 ,		7
485	Road watch radar system development. 2013 ,		1
484	A review of recent developments in vision-based vehicle detection. 2013 ,		43
483	Spectral reflectance estimation from visible light components and near-infrared components. 2013 ,		2
482	Target-to-track collaborative association combining a laser scanner and a camera. 2013 ,		5
481	King's Graph-Based Neighbor-Vehicle Mapping Framework. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013 , 14, 1313-1330	6.1	6
480	Vehicle detection and tracking by collaborative fusion between laser scanner and camera. 2013 ,		9
479	Efficient vehicle detection with adaptive scan based on perspective geometry. 2013 ,		2
478	Vehicle detection and tracking with 2D laser range finders. 2013 ,		7
477	Active safety with enhanced communication among traffic participants. 2013 ,		1
476	Vision-based Adaptive Cruise Control using pattern matching. 2013 ,		3
475	Multi-source information fusion for drowsy driving detection based on wireless sensor networks. 2013 ,		8

474	Visual tracking with representative templates based on low-rank matrix. 2013,	
473	A Rapid Method Based on Vehicle Video for Multiobjects Detection. 2013, 5, 546752	1
472	Stereo-Based Tracking-by-Multiple Hypotheses Framework for Multiple Vehicle Detection and Tracking. 2013, 10, 293	5
471	State-of-the-art Versus Time-triggered Object Tracking in Advanced Driver Assistance Systems. 2013, 10, 196	1
470	On-Road Vehicle Recognition Using the Symmetry Property and Snake Models. 2013, 10, 407	1
469	A study of feature combination for vehicle detection based on image processing. 2014, 2014, 196251	12
468	Robust range estimation with a monocular camera for vision-based forward collision warning system. 2014, 2014, 923632	17
467	Dynamic vehicle traffic routing problem: Study, implementation and analysis using ACO and GA. 2014,	3
466	Monovision-based vehicle detection, distance and relative speed measurement in urban traffic. 2014, 8, 655-664	18
465	Automatic detection and tracking of multiple interacting targets from a moving platform. 2014, 53, 013102	2
464	Near-Miss Event Detection at Railway Level Crossings. 2014,	5
463	Preceding vehicle detection and tracking adaptive to illumination variation in night traffic scenes based on relevance analysis. 2014, 14, 15325-47	13
462	Orientation measurement based on magnetic inductance by the extended distributed multi-pole model. 2014, 14, 11504-21	9
461	Traffic measurement on multiple drive lanes with wireless ultrasonic sensors. 2014, 14, 22891-906	13
460	Multifeature Fusion Vehicle Detection Algorithm Based on Choquet Integral. 2014, 2014, 1-11	
459	Taxonomy and procedures for adaptive autonomous systems in crowded hybrid environments. 2014,	5
458	High throughput FPGA architecture for corner detection in traffic images. 2014,	4
457	Monocular vision-based range estimation of on-road vehicles. 2014,	

456	. 2014 , 24, 2049-2062		12
455	Detection of parked vehicles from a radar based occupancy grid. 2014 ,		30
454	Mono-camera based vehicle detection using effective candidate generation. 2014 ,		1
453	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 563-578	6.1	5
452	Mobile Robot Navigation Techniques Using Potential Field Method in Unknown Environments. 2014 , 656, 388-394		2
451	Joint Human Detection From Static and Mobile Cameras. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 1-12	6.1	3
450	Reducing Traffic Congestion Using Geo-fence Technology. 2014 ,		7
449	A real-time architecture of multiple features extraction for vehicle verification. 2014 ,		
448	Analyzing Traffic Density in Images with Low Temporal and Spatial Resolution. 2014 ,		1
447	A new background updating model for motion detection considering future frame. 2014 ,		
446	Extended Gradient Local Ternary Pattern for Vehicle Detection. 2014 ,		
445	Research on Stereo Matching Algorithm in Intelligent Vehicle Application. 2014 , 678, 35-38		1
444	Object-Level Priors for Stixel Generation. <i>Lecture Notes in Computer Science</i> , 2014 , 172-183	0.9	9
443	Vehicle recognition based on Gabor and Log-Gabor transforms. 2014 ,		2
442	Vehicle detection in driving simulation using extreme learning machine. <i>Neurocomputing</i> , 2014 , 128, 160-165	5.4	30
441	On-road vehicle tracking using keypoint-based representation and online co-training. <i>Multimedia Tools and Applications</i> , 2014 , 72, 1561-1583	2.5	7
440	Fuzzy Free Path Detection from Disparity Maps by Using Least-Squares Fitting to a Plane. 2014 , 75, 313-330		1
439	The bane of skew. 2014 , 97, 5-32		4

438	Principal component analysis-based learning for preceding vehicle classification. 2014 , 8, 28-35		2
437	Support Vector Number Reduction: Survey and Experimental Evaluations. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 463-476	6.1	16
436	Visual object tracking using spatial Context Information and Global tracking skills. 2014 , 125, 1-15		6
435	Car detection in sequences of images of urban environments using mixture of deformable part models. 2014 , 39, 39-51		8
434	Overtaking vehicle detection using a spatio-temporal CRF. 2014 ,		11
433	Design and Implementation of Multiple-Vehicle Detection and Tracking Systems with Machine Learning. 2014 ,		1
432	Vehicle detection for autonomous parking using a Soft-Cascade AdaBoost classifier. 2014 ,		23
431	Novel approach for vehicle detection in dynamic environment based on monocular vision. 2014 ,		0
430	Advanced driver assistant system based on monocular camera. 2014 ,		2
429	Improving the Performance of Vehicle Detection and Verification by Log Gabor Filter Optimization. 2014 ,		4
428	Driving behaviour-based event data recorder. 2014 , 8, 361-367		16
427	Parking Assistance System for Leaving Perpendicular Parking Lots: Experiments in Daytime/Nighttime Conditions. 2014 , 6, 57-68		5
426	A forward collision avoidance system adopting multi-feature vehicle detection. 2014 ,		3
425	Image Color Registration for Illumination-Robust Pattern Recognition. 2014 , 33, 3839-3860		
424	Simultaneous estimation of ego-motion and vehicle distance by using a monocular camera. 2014 , 57, 1-10		6
423	Steer-by-Wire, Potential, and Challenges. 2014 , 1-14		3
422	Laser-based size and pose estimation of moving objects by multiple mobile robots. 2015 , 81, 14-00388-14-00388		
421	DARPA Robotics Grand Challenge Participation and Ski-Type Gait for Rough-Terrain Walking. 2015 , 1, 036-045		0

420	Visual vehicles detection and robustness enhancement. 2015,	
419	Robust vehicle detection under various environments to realize road traffic flow surveillance using an infrared thermal camera. 2015, 2015, 947272	7
418	Analysis of Intelligent Transportation Systems Using Model-Driven Simulations. 2015, 15, 14116-41	23
417	A Framework for Applying Point Clouds Grabbed by Multi-Beam LIDAR in Perceiving the Driving Environment. 2015, 15, 21931-56	13
416	New Vehicle Detection Method with Aspect Ratio Estimation for Hypothesized Windows. 2015, 15, 30927-41	7
415	Object Detection: Current and Future Directions. 2015, 2,	23
414	Transportation Systems: Monitoring, Control, and Security. 2015, 125-166	2
413	An omnidirectional vision system for bus safety surveillance. 2015,	0
412	High-performance long range obstacle detection using stereo vision. 2015,	14
411	Parallel feature extraction and heterogeneous object-detection for multi-camera driver assistance systems. 2015,	0
410	Fast object detection from unmanned surface vehicles via objectness and saliency. 2015,	0
409	A large-scale car dataset for fine-grained categorization and verification. 2015,	335
408	Evidence of long range dependence and self-similarity in urban traffic systems. 2015,	1
407	A Three-Step Vehicle Detection Framework for Range Estimation Using a Single Camera. 2015,	1
406	Vision based motorcycle detection using HOG features. 2015,	15
405	. 2015,	4
404	A Comparison Study on Vehicle Detection in Far Infrared and Regular Images. 2015,	4
403	Road environment perception algorithm based on object semantic probabilistic model. 2015,	

402	Real-time Detection of Vehicles Using the Haar-like Features and Artificial Neuron Networks. 2015 , 73, 24-31		30
401	Tracking-Learning-Detection Adopted Unsupervised Learning Algorithm. 2015 ,		3
400	Cloud robotics paradigm for enhanced navigation of autonomous vehicles in real world industrial applications. 2015 ,		5
399	Detection of moving objects in roundabouts based on a monocular system. 2015 , 42, 4167-4176		22
398	On-Road Collision Warning Based on Multiple FOE Segmentation Using a Dashboard Camera. 2015 , 64, 4974-4984		10
397	Intelligent tires for identifying coefficient of friction of tire/road contact surfaces using three-axis accelerometer. 2015 , 24, 025010		19
396	Robust and Computationally Lightweight Autonomous Tracking of Vehicle Taillights and Signal Detection by Embedded Smart Cameras. 2015 , 62, 3732-3741		40
395	Stereovision-Based Multiple Object Tracking in Traffic Scenarios Using Free-Form Obstacle Delimiters and Particle Filters. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 498-511 ^{6.1}	6.1	35
394	Quantitative model of the driver's reaction time during daytime fog application to a head up display-based advanced driver assistance system. 2015 , 9, 375-381		6
393	On-road multi-vehicle tracking algorithm based on an improved particle filter. 2015 , 9, 429-441		7
392	A Real Time Method to Detect Vehicle for Collision Avoidance Applications. 2015 , 719-720, 1132-1139		
391	Vision-Based Nighttime Vehicle Detection Using CenSurE and SVM. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2599-2608	6.1	32
390	Vehicle tracking using fractional order Kalman filter for non-linear system. 2015 ,		3
389	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 3170-3181	6.1	17
388	An application of a bio-inspired visual attention model for the localization of vehicle parts. 2015 , 31, 369-380		1
387	Stereo vision-based pedestrian detection using dense disparity map-based detection and segmentation. 2015 ,		1
386	Robust Vehicle Detection and Distance Estimation Under Challenging Lighting Conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2723-2743	6.1	70
385	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 1989-1998	6.1	10

384	A Multimodal ADAS System for Unmarked Urban Scenarios Based on Road Context Understanding. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 1690-1704	6.1	37
383	Optical flow modeling and computation: A survey. 2015 , 134, 1-21		198
382	Vehicle Detection Techniques for Collision Avoidance Systems: A Review. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2318-2338	6.1	219
381	Collaborative Mobile-Cloud Computing for Civil Infrastructure Condition Inspection. 2015 , 29, 04014066		11
380	Fast stereo-based pedestrian detection using hypotheses. 2015 ,		2
379	Recent advances in ultrafast semiconductor disk lasers. 2015 , 4, e310-e310		94
378	Pose Estimation for Vehicles Based on Binocular Stereo Vision in Urban Traffic. <i>Lecture Notes in Computer Science</i> , 2015 , 454-465	0.9	0
377	Real-time vehicle detection using Haar-SURF mixed features and gentle AdaBoost classifier. 2015 ,		13
376	A Novel On-Road Vehicle Detection Method Using π HOG. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 3414-3429	6.1	36
375	High-performance on-road vehicle detection with non-biased cascade classifier by weight-balanced training. 2015 , 2015,		6
374	Detecting partially occluded vehicles with geometric and likelihood reasoning. 2015 , 9, 174-183		3
373	Share-use of the motion vectors from video encoding for high relative speed moving vehicle detection. 2015 ,		
372	Intelligent tires for identifying coefficient of friction of tire/road contact surfaces. 2015 ,		
371	Smart road vehicle sensing system based on monocular vision. 2015 , 126, 386-390		8
370	Video based vehicle detection and tracking for driver assistance systems. 2015 , 7, 41-49		1
369	An Adaptive Object Tracking Using Kalman Filter and Probability Product Kernel. 2016 , 2016, 1-8		7
368	Visibility Enhancement of Scene Images Degraded by Foggy Weather Conditions with Deep Neural Networks. 2016 , 2016, 1-9		9
367	Night-Time Vehicle Detection Algorithm Based on Visual Saliency and Deep Learning. 2016 , 2016, 1-7		16

366	Night-Time Vehicle Sensing in Far Infrared Image with Deep Learning. 2016 , 2016, 1-8		13
365	Vehicle 3-dimension measurement by monocular camera based on license plate. 2016 ,		3
364	References. 2016 , 324-372		1
363	Unsupervised object counting without object recognition. 2016 ,		3
362	Soft Radial Basis Cellular Neural Network (SRB-CNN) based robust low-cost truck detection using a single presence detection sensor. 2016 , 73, 105-127		6
361	Characterisation of vibration input to flywheel used on urban bus. 2016 , 744, 012214		
360	Vision-Based Lane Marking Detection and Moving Vehicle Detection. 2016 ,		2
359	Training method for vehicle detection. 2016 ,		
358	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 2681-2698	6.1	105
357	On road vehicle detection by learning hard samples and filtering false alarms from shadow features. 2016 , 30, 2783-2791		5
356	Intelligent Vehicles. 2016 , 1627-1656		25
355	Fast and reliable tracking algorithm for on-road vehicle detection systems. 2016 ,		2
354	Moving Object Detection Using SIFT Matching on Three Frames for Advanced Driver Assistance Systems. <i>Lecture Notes in Computer Science</i> , 2016 , 474-485	0.9	
353	Real-time lane-vehicle detection and tracking system. 2016 ,		8
352	Low cost in-flow traffic monitor for South-East Asia. 2016 ,		1
351	Robust virtual scan for obstacle Detection in urban environments. 2016 ,		3
350	Traffic situation estimator for Adaptive Cruise Control. 2016 ,		
349	Cooperative moving-object tracking with multiple mobile sensor nodes Size and posture estimation of moving objects using in-vehicle multilayer laser scanner. 2016 ,		4

348	Distance and speed measurements from monocular images. 2016,		2
347	TCM: A Vision-Based Algorithm for Distinguishing between Stationary and Moving Objects Irrespective of Depth Contrast from a UAS. 2016, 13, 84		3
346	The Cerema pedestrian database: A specific database in adverse weather conditions to evaluate computer vision pedestrian detectors. 2016,		4
345	On-Road Vehicle Detection and Tracking Using MMW Radar and Monovision Fusion. <i>IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2075-2084</i>	6.1	106
344	Video-based tracking of vehicles using multiple time-spatial images. 2016, 62, 17-31		20
343	Real-time vehicle detection using histograms of oriented gradients and AdaBoost classification. 2016, 127, 7941-7951		38
342	Detecting and tracking vehicles in traffic by unmanned aerial vehicles. 2016, 72, 294-308		73
341	Vehicle-Following Model Using Virtual Piecewise Spline Tow Bar. 2016, 142, 04016051		4
340	Daytime Preceding Vehicle Brake Light Detection Using Monocular Vision. 2016, 16, 120-131		28
339	. 2016, 65, 4023-4032		28
338	Real-time rear obstacle detection using reliable disparity for driver assistance. 2016, 56, 186-196		13
337	NMF-Based Spectral Reflectance Estimation From Image Pairs Including Near-Infrared Components. 2016, 26, 855-867		1
336	Fast spatio-temporal stereo matching for advanced driver assistance systems. <i>Neurocomputing, 2016, 194, 24-33</i>	5.4	19
335	Image Features Extraction, Selection and Fusion for Computer Vision. 2016, 75-107		1
334	An Intelligent System for Road Moving Object Detection. <i>Advances in Intelligent Systems and Computing, 2016, 189-198</i>	0.4	1
333	Road accident rates: strategies and programmes for improving road traffic safety. 2016, 42, 433-438		59
332	Vision-based two-step brake detection method for vehicle collision avoidance. <i>Neurocomputing, 2016, 173, 450-461</i>	5.4	17
331	A Blind-Zone Detection Method Using a Rear-Mounted Fisheye Camera With Combination of Vehicle Detection Methods. <i>IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 264-278</i>	6.1	27

330	Detection and Classification of Vehicles by Measurement of Road-Pavement Vibration and by Means of Supervised Machine Learning. 2016 , 20, 125-137		16
329	. 2017 , 66, 1975-1984		13
328	Extension of Cellular Automata for Dynamic Vehicle Tracking. 2017 , 15, 127-140		
327	Adaptable Vehicle Detection and Speed Estimation for Changeable Urban Traffic With Anisotropic Magnetoresistive Sensors. 2017 , 17, 2021-2028		17
326	Vision-Based Driver-Assistance Systems. 2017 , 1-18		1
325	Overview of Environment Perception for Intelligent Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 2584-2601	6.1	148
324	Multiple Auxiliaries Assisted Airborne Power Line Detection. 2017 , 64, 4810-4819		13
323	Policy and society related implications of automated driving: A review of literature and directions for future research. 2017 , 21, 324-348		399
322	Empowering vehicle tracking in a cluttered environment with adaptive cellular automata suitable to intelligent transportation systems. 2017 , 11, 84-91		9
321	Turn Signal Detection During Nighttime by CNN Detector and Perceptual Hashing Tracking. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3303-3314	6.1	39
320	Tracking as a Whole: Multi-Target Tracking by Modeling Group Behavior With Sequential Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3339-3349	6.1	39
319	Self-sensing piezoresistive cement composite loaded with carbon black particles. 2017 , 81, 59-65		75
318	A vision radar system for car safety driving applications. 2017 ,		
317	An Adaptive Cross-Window stereo camera Distance Estimation technology and its system implementation for multiple applications. 2017 ,		1
316	A feature matching and fusion-based positive obstacle detection algorithm for field autonomous land vehicles. 2017 , 14, 172988141769251		2
315	A Graph-Based Vehicle Proposal Location and Detection Algorithm. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 3282-3289	6.1	11
314	Vision-Based Integrated Techniques for Collision Avoidance Systems. 2017 , 305-320		
313	A pressure-sensitive carbon black cement composite for traffic monitoring. 2017 , 154, 1079-1086		55

312	. 2017,		2
311	Traffic phase inference using traffic cameras. 2017,		2
310	Stereo vision based negative obstacle detection. 2017,		6
309	Part-based recognition of vehicle make and model. 2017, 11, 483-491		6
308	Intelligent Vision Processing Technology for Advanced Driver Assistance Systems. 2017, 175-206		
307	A Computationally Economic Novel Approach for Real-Time Moving Multi-vehicle Detection and Tracking toward Efficient Traffic Surveillance. 2017, 42, 817-831		10
306	Vehicle Detection by a Context-Aware Multichannel Feature Pyramid. 2017, 47, 1348-1357		7
305	On-Road Vehicle Trajectory Collection and Scene-Based Lane Change Analysis: Part I. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 192-205	6.1	35
304	Vehicles of the Future: A Survey of Research on Safety Issues. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 1046-1065	6.1	72
303	Fast and accurate vehicle detection by aspect ratio regression. 2017,		1
302	Vehicle detection for forward collision warning system based on a cascade classifier using adaboost algorithm. 2017,		3
301	. 2017,		2
300	Experimental evaluation of cooperative adaptive cruise control with autonomous mobile robots. 2017,		9
299	Vehicle detection under tough conditions using prioritized feature extraction with shadow recognition. 2017,		4
298	The performance of proposed deep residual learning network of images. 2017,		1
297	UAV-Based Vehicle Detection by Multi-source Images. 2017, 38-49		1
296	Illegal Parking Detection Using Gaussian Mixture Model and Kalman Filter. 2017,		3
295	A multiple-lane vehicle tracking method for forward collision warning system applications. 2017,		

294	Vison-Based Traffic Flow Prediction Using Dynamic Texture Model and Gaussian Process. 2017,	
293	. 2017,	1
292	Robust vehicle detection and identification with single magnetic sensor. 2017,	2
291	Parkmaster. 2017,	26
290	Fast Vehicle Detector for Autonomous Driving. 2017,	4
289	EEG-based emergency braking intention prediction for brain-controlled driving considering one electrode falling-off. 2017, 2017, 2494-2497	2
288	A multiple vehicle sensing approach for collision avoidance in progressively deployed vehicle networks. 2017,	1
287	Illumination-Invariant Feature by SVD and Its Applications. 2017,	
286	The Importance of HEV Fuel Economy and Two Research Gaps Preventing Real World Implementation of Optimal Energy Management. 2017,	11
285	Survey on Ranging Sensors and Cooperative Techniques for Relative Positioning of Vehicles. 2017, 17,	103
284	A Probability-Based Algorithm Using Image Sensors to Track the LED in a Vehicle Visible Light Communication System. 2017, 17,	19
283	Shadow-Based Vehicle Detection in Urban Traffic. 2017, 17,	14
282	A Comparison of FPGA and GPGPU Designs for Bayesian Occupancy Filters. 2017, 17,	1
281	Vehicle Tracking and Counting System in Dusty Weather with Vibrating Camera Conditions. 2017, 2017, 1-9	6
280	A Practical Point Cloud Based Road Curb Detection Method for Autonomous Vehicle. 2017, 8, 93	14
279	Improving vehicle tracking rate and speed estimation in dusty and snowy weather conditions with a vibrating camera. 2017, 12, e0189145	0
278	Power efficient automated lights results to security for underground parking space. 2017,	2
277	AG-MS: A User Grouping Scheme for DASH Multicast over Wireless Networks. 2017,	2

276	A perception system for robot arms to convey objects to in-car passengers. 2017,		0
275	The performance of corrected learning network for object recognition. 2017,		
274	Line-Circle: A Geometric Filter for Single Camera Edge-Based Object Detection. 2017,		
273	Increasing the Fuel Economy of Connected and Autonomous Lithium-Ion Electrified Vehicles. 2018, 129-151		7
272	Autonomous vehicle perception: The technology of today and tomorrow. 2018, 89, 384-406		236
271	Vehicle Re-Identification by Deep Hidden Multi-View Inference. 2018, 27, 3275-3287		67
270	Fast Automatic Vehicle Annotation for Urban Traffic Surveillance. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 1973-1984	6.1	29
269	Improved Robust Vehicle Detection and Identification Based on Single Magnetic Sensor. <i>IEEE Access</i> , 2018, 6, 5247-5255	3.5	29
268	Kooperativ interagierende Automobile. 2018, 66, 81-99		5
267	References. 2018, 801-845		
266	Correlation-Based Tracking of Multiple Targets With Hierarchical Layered Structure. 2018, 48, 90-102		18
265	Vehicle detection in intelligent transportation systems and its applications under varying environments: A review. 2018, 69, 143-154		87
264	Vehicle Detection Method for Intelligent Vehicle at Night Time Based on Video and Laser Information. 2018, 32, 1850009		8
263	A Cascaded Part-Based System for Fine-Grained Vehicle Classification. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 273-283	6.1	27
262	. 2018,		6
261	A system for real-time detecting and recognizing object person. 2018,		
260	Environment Estimation with Dynamic Grid Maps and Self-Localizing Tracklets. 2018,		5
259	. 2018,		1

258	3-D Data Processing to Extract Vehicle Trajectories from Roadside LiDAR Data. 2018 , 2672, 14-22	32
257	Monocular Vision-Based Obstacle Detection Technique using Projected Grid Deformation. 2018 ,	
256	A Non-Invasive Method for the Safe Interaction of Cities and Electric Vehicle Fleets. 2018 ,	
255	DSRC Based Sensor-Pooling Protocol for Connected Vehicles in Future Smart Cities. 2018 , 140, 70-78	2
254	A fast and self-adaptive on-line learning detection system. 2018 , 144, 13-22	2
253	Polarization-Based Car Detection. 2018 ,	6
252	Design of a Wireless Sensor Network to Detect Car Accidents on Highways. 2018 ,	0
251	Long-Distance Vehicle Detection Algorithm at Night for Driving Assistance. 2018 ,	0
250	Performance Assessment of an Integrated Radar Architecture for Multi-Types Frontal Object Detection for Autonomous Vehicle. 2018 ,	
249	Simultaneous Localization and Mapping in Application to Autonomous Robot. 2018 ,	2
248	Designing a Roadside Sensor Infrastructure to Support Automated Driving. 2018 ,	4
247	FarSight. 2018 , 2, 1-22	5
246	Multiple Vehicle Detection with Different Scales in Urban Surveillance Video. 2018 ,	1
245	End-to-End Race Driving with Deep Reinforcement Learning. 2018 ,	50
244	A fuzzy-based approach for cluster management in VANETs: Performance evaluation for two fuzzy-based systems. 2018 , 3-4, 120-133	33
243	Improving On-Road Vehicle Detection Performance by Combining Detection and Tracking Techniques. 2018 ,	1
242	Smart Street Lighting with Reduced Sensors for Sustainable and Efficient Smart Cities. 2018 ,	1
241	Low-cost triboelectric sensor for speed measurement and weight estimation of vehicles. 2018 , 12, 958-964	13

240	Dense Optical Flow Estimation from RGB-D. 2018,		
239	An intelligent vision-based approach for helmet identification for work safety. 2018, 100, 267-277		34
238	From Pixels to Actions: Learning to Drive a Car with Deep Neural Networks. 2018,		2
237	Development of an Autonomous Vehicle Control Strategy Using a Single Camera and Deep Neural Networks. 2018,		5
236	Vehicle-to-Vehicle Real-Time Video Transmission through IEEE 802.11p for Assisted-Driving. 2018,		5
235	Real-time control systems. 2018, 81-113		2
234	Obstacle recognition in front of vehicle based on geometry information and corrected laser intensity. 2018, 23, 338-344		
233	Vehicle target detection methods based on color fusion deformable part model. 2018, 2018,		6
232	Smoky vehicle detection based on multi-feature fusion and ensemble neural networks. <i>Multimedia Tools and Applications</i> , 2018, 77, 32153-32177	2.5	9
231	Impact of compressed and down-scaled training images on vehicle detection in remote sensing imagery. <i>Multimedia Tools and Applications</i> , 2019, 78, 32565-32583	2.5	11
230	Vision-based Detection of Road Users and Infrastructure Elements for Automated Driving. 2019,		1
229	Real-Time Hybrid Multi-Sensor Fusion Framework for Perception in Autonomous Vehicles. 2019, 19,		36
228	The Correlation between Vehicle Vertical Dynamics and Deep Learning-Based Visual Target State Estimation: A Sensitivity Study. 2019, 19,		4
227	Pedestrian Recognition and Rapid Ranging Method of Night Based on Monocular Vision. 2019,		
226	Concept of using unmanned aerial vehicle (UAV) in the analysis of traffic parameters on Oder Waterway. 2019, 39, 231-241		2
225	Robust Tube-Based Model Predictive Control for Lateral Path Tracking. <i>IEEE Transactions on Intelligent Vehicles</i> , 2019, 4, 569-577	5	30
224	Bird's eye view localization of surrounding vehicles: Longitudinal and lateral distance estimation with partial appearance. 2019, 112, 178-189		1
223	Effect of security and trustworthiness for a fuzzy cluster management system in VANETs. 2019, 55, 153-163		26

222	Show Me a Safer Way: Detecting Anomalous Driving Behavior Using Online Traffic Footage. 2019 , 4, 22		1
221	Raster-Based Background Filtering for Roadside LiDAR Data. <i>IEEE Access</i> , 2019 , 7, 76779-76788	3.5	17
220	A Robust On-Road Vehicle Detection and Tracking Method Based on Monocular Vision. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 295-302	0.4	
219	Information, uncertainty and the manipulability of artificial intelligence autonomous vehicles systems. 2019 , 130, 40-46		7
218	Accurate Vehicle Detection Using Multi-camera Data Fusion and Machine Learning. 2019 ,		5
217	Context Aware Vehicle Detection using Correlation Filter. 2019 ,		1
216	A survey of advances in vision-based vehicle re-identification. 2019 , 182, 50-63		36
215	Improving Pedestrian Safety in Cities Using Intelligent Wearable Systems. 2019 , 6, 7497-7514		16
214	Encoder-decoder network for pixel-level road crack detection in black-box images. 2019 , 34, 713-727		151
213	. 2019 , 11, 82-95		52
212	Hybrid 3D ranging and velocity tracking system combining multi-view cameras and simple LiDAR. 2019 , 9, 5241		8
211	Robust Vehicle and Surrounding Environment Dynamic Analysis for Assistive Driving Using Visual-Inertial Measurements. <i>IEEE Access</i> , 2019 , 7, 8002-8017	3.5	1
210	Time of Flight 3D Imaging using VCSEL Beam Scanner. 2019 ,		
209	Vision-based inter-vehicle distance estimation for driver alarm system. 2019 , 13, 927-932		8
208	. 2019 ,		
207	Optimized traffic flow prediction based on cluster formation and reinforcement learning. 2019 , e4178		5
206	Vision-based road slope estimation methods using road lines or local features from instant images. 2019 , 13, 1590-1602		7
205	An Integrated Framework for Autonomous Driving: Object Detection, Lane Detection, and Free Space Detection. 2019 ,		4

204	Design and Fabrication of 77-GHz Radar Absorbing Materials Using Frequency-Selective Surfaces for Autonomous Vehicles Application. 2019 , 29, 779-782		7
203	Robust obstacle detection for advanced driver assistance systems using distortions of inverse perspective mapping of a monocular camera. 2019 , 114, 172-186		8
202	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 3634-3646	6.1	11
201	Fog Computing Model for Evolving Smart Transportation Applications. 2019 , 347-372		7
200	A modified faster region-based convolutional neural network approach for improved vehicle detection performance. <i>Multimedia Tools and Applications</i> , 2019 , 78, 29431-29446	2.5	8
199	HybridNet: A Fast vehicle detection system for autonomous driving. 2019 , 70, 79-88		32
198	Visual vehicle detection scheme on low-powered embedded GPU. 2019 , 36, 1867-1877		
197	Multi-vehicle detection algorithm through combining Harr and HOG features. 2019 , 155, 130-145		45
196	Compressed-Domain Highway Vehicle Counting by Spatial and Temporal Regression. 2019 , 29, 263-274		11
195	Looking at Vehicles in the Night: Detection and Dynamics of Rear Lights. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 4297-4307	6.1	19
194	Structural Analysis of Attributes for Vehicle Re-Identification and Retrieval. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 723-734	6.1	25
193	Review of Vehicle Detection Systems in Advanced Driver Assistant Systems. 2020 , 27, 591-610		13
192	Modeling multi-agent systems to simulate sensor-based Smart Roads. 2020 , 99, 101994		10
191	Simultaneous End-to-End Vehicle and License Plate Detection With Multi-Branch Attention Neural Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 3686-3695	6.1	16
190	Deep Learning for Generic Object Detection: A Survey. 2020 , 128, 261-318		699
189	Dynamic sensing properties of a multifunctional cement composite with carbon black for traffic monitoring. 2020 , 29, 025023		16
188	Context-Aware Object Detection for Vehicular Networks Based on Edge-Cloud Cooperation. 2020 , 7, 5783-5791		13
187	Development of Advanced Driver Assistance Systems for Indian Cars. 2020 , 912, 062030		0

186	Pedestrian as Points: An Improved Anchor-Free Method for Center-Based Pedestrian Detection. <i>IEEE Access</i> , 2020 , 8, 179666-179677	3.5	6
185	Multiclass obstacles detection and classification using stereovision and Bayesian network for intelligent vehicles. 2020 , 17, 172988142094727		0
184	A comprehensive and systematic look up into deep learning based object detection techniques: A review. 2020 , 38, 100301		36
183	Edge-Based Traffic Flow Data Collection Method Using Onboard Monocular Camera. 2020 , 146, 04020096		1
182	A Survey on Performance Metrics for Object-Detection Algorithms. 2020 ,		103
181	Vehicle Classification and Speed Estimation Based on a Single Magnetic Sensor. <i>IEEE Access</i> , 2020 , 8, 126814-126824	3.5	2
180	Lane Departure Warning System using TDA3x_rvp Board. 2020 ,		0
179	. 2020 , 12, 149-168		1
178	Improved Faster RCNN Based on Feature Amplification and Oversampling Data Augmentation for Oriented Vehicle Detection in Aerial Images. 2020 , 12, 2558		13
177	Gradient-Based Edge Effects on Lane Marking Detection using a Deep Learning-Based Approach. 2020 , 45, 10989-11006		3
176	. <i>IEEE Access</i> , 2020 , 8, 170461-170495	3.5	27
175	Visualization Analysis of Intelligent Vehicles Research Field Based on Mapping Knowledge Domain. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-16	6.1	15
174	Imbalance Problems in Object Detection: A Review. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 3388-3415	13.3	90
173	Nighttime Vehicle Detection and Tracking with Occlusion Handling by Pairing Headlights and Taillights. 2020 , 10, 3986		4
172	Real-Time Single-Stage Vehicle Detector Optimized by Multi-Stage Image-Based Online Hard Example Mining. 2020 , 69, 1505-1518		5
171	Local binary pattern-based on-road vehicle detection in urban traffic scene. 2020 , 23, 1505-1521		11
170	Video-Based Parking Occupancy Detection for Smart Control System. 2020 , 10, 1079		10
169	Moving Object Detection from Moving Camera Image Sequences Using an Inertial Measurement Unit Sensor. 2020 , 10, 268		2

168	Vehicle detection in intelligent transport system under a hazy environment: a survey. 2020 , 14, 1-10		16
167	A Study on Recent Developments and Issues with Obstacle Detection Systems for Automated Vehicles. <i>Sustainability</i> , 2020 , 12, 3281	3.6	16
166	Camera and Radar Sensor Fusion for Robust Vehicle Localization via Vehicle Part Localization. <i>IEEE Access</i> , 2020 , 8, 75223-75236	3.5	11
165	Technological advances relevant to transport [Understanding what drives them. 2020 , 135, 80-95		4
164	Congestion Propagation Based Bottleneck Identification in Urban Road Networks. 2020 , 69, 4827-4841		14
163	Virtual mono-layered continuous containers for vehicle detection applications in intelligent transportation systems. 2020 , 23, 321-328		2
162	Traffic collisions early warning aided by small unmanned aerial vehicle companion. 2020 , 75, 169-180		1
161	Feature selection and classification methods for vehicle tracking and detection. 2021 , 12, 4269-4279		5
160	A novel online self-learning system with automatic object detection model for multimedia applications. <i>Multimedia Tools and Applications</i> , 2021 , 80, 16659-16681	2.5	1
159	Automatic Vehicle Detection With Roadside LiDAR Data Under Rainy and Snowy Conditions. 2021 , 13, 197-209		7
158	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 683-711	6.1	52
157	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 951-963	6.1	20
156	What Is the Root Cause of Congestion in Urban Traffic Networks: Road Infrastructure or Signal Control?. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-18	6.1	0
155	A Comparative Analysis of Object Detection Metrics with a Companion Open-Source Toolkit. 2021 , 10, 279		67
154	Machine Learning-Based Real-Time Traffic Accident Detection. <i>Lecture Notes in Networks and Systems</i> , 2021 , 673-684	0.5	
153	Deep learning based image processing for proactive data collecting system for autonomous vehicle. 2021 ,		
152	Detection of humans in drone images for search and rescue operations. 2021 ,		4
151	Autonomous Vehicles: Present Technological Traits and Scope for Future Innovation. 2021 , 115-143		3

150	Testing of Vehicular Traffic Monitoring Technique by Using WIFI Packet Measurement in Software-defined Wireless Mesh Network. 2021 ,	1
149	Intelligent driving intelligence test for autonomous vehicles with naturalistic and adversarial environment. 2021 , 12, 748	23
148	LineCircleSquare (LCS): A multilayered geometric filter for edge-based detection. 2021 , 137, 103732	1
147	Real-time vehicle detection and tracking using 3D LiDAR.	5
146	An Automatic Lane Marking Detection Method With Low-Density Roadside LiDAR Data. 2021 , 21, 10029-100386	
145	. 2021 , 6, 2209-2216	0
144	Object Detection Using Deep Learning Methods in Traffic Scenarios. 2021 , 54, 1-35	5
143	Collaborative processing and data optimization of environmental perception technologies for autonomous vehicles. 2021 , ahead-of-print,	2
142	The Do's and Don'ts for Increasing the Accuracy of Face Recognition on VGGFace2 Dataset. 2021 , 46, 8901-8911	0
141	A survey on deep learning and its applications. 2021 , 40, 100379	94
140	Intelligent Tire Sensor-Based Real-Time Road Surface Classification Using an Artificial Neural Network. 2021 , 21,	2
139	An improved public transportation system for effective usage of vehicles in intelligent transportation system. 2021 , 34, e4910	3
138	Traffic vehicle cognition in severe weather based on radar and infrared thermal camera fusion. 2021 , 32, 095111	1
137	Robustness of Bio-Inspired Visual Systems for Collision Prediction in Critical Robot Traffic. 2021 , 8, 529872	0
136	FPGA-Based Dual-Pulse Anti-Interference Lidar System Using Digital Chaotic Pulse Position Modulation. 2021 , 33, 757-760	2
135	Road Object Detection: A Comparative Study of Deep Learning-Based Algorithms. 2021 , 10, 1932	14
134	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 5783-5801	6.1 5
133	Autonomous-Driving Vehicle Control With Composite Velocity Profile Planning. 2021 , 29, 2079-2091	4

132	Vehicle classification using a real-time convolutional structure based on DWT pooling layer and SE blocks. 2021 , 183, 115420		2
131	Feasibility study of a novel load detection system for train doors based on the acoustic characteristics of elastic tubes. 2021 , 332, 113021		
130	K- and W-Band Free-Space Characterizations of Highly Conductive Radar Absorbing Materials. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	2
129	Feature Engineering and Deep Learning for Stereo Matching Under Adverse Driving Conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-11	6.1	0
128	Study on Partial Image Detection for Drawing Focus on Unstructured Images Included in the Main Image. 2021 , 91-109		
127	Awareness of Road Scene Participants for Autonomous Driving. 2012 , 1383-1432		19
126	A Comparative Study of Vehicle Detection Methods in a Video Sequence. 2020 , 37-53		6
125	Beyond the Buzzwords: On the Perspective of AI in UX and Vice Versa. <i>Lecture Notes in Computer Science</i> , 2020 , 146-166	0.9	5
124	The Human Element in Autonomous Vehicles. <i>Lecture Notes in Computer Science</i> , 2017 , 339-362	0.9	2
123	Vehicle Detection Based on Color and Edge Information. <i>Lecture Notes in Computer Science</i> , 2008 , 142-150	0.9	5
122	Vehicle Trajectory Estimation Based on Monocular Vision. <i>Lecture Notes in Computer Science</i> , 2007 , 587-594	0.9	3
121	Cascade of Classifiers for Vehicle Detection. 2007 , 980-989		8
120	Pedestrian Detection and Tracking Based on Far Infrared Visual Information. <i>Lecture Notes in Computer Science</i> , 2008 , 958-969	0.9	6
119	Ensembles of Feature Subspaces for Object Detection. <i>Lecture Notes in Computer Science</i> , 2009 , 996-1004	0.9	9
118	Towards Rapid Dynamic Partial Reconfiguration in Video-Based Driver Assistance Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 55-67	0.9	26
117	MEMS in Automobiles. 2012 , 721-757		3
116	Using the Shadow as a Single Feature for Real-Time Monocular Vehicle Pose Determination. <i>Lecture Notes in Computer Science</i> , 2011 , 563-572	0.9	1
115	Deep Learning for Generic Object Detection: A Survey. 2020 , 128, 261		1

114	Multi-camera multiple vehicle tracking in urban intersections based on multilayer graphs. 2020 , 14, 1673-1690	3
113	Object detection networks and augmented reality for cellular detection in fluorescence microscopy. 2020 , 219,	16
112	Object Detection Networks and Augmented Reality for Cellular Detection in Fluorescence Microscopy Acquisition and Analysis.	3
111	Vision based Traffic Light Detection and Recognition Methods for Daytime LED Traffic Light. 2014 , 9, 145-150	3
110	Platoon Control Algorithm Evaluation: Metrics, Configurations, Perturbations, and Scenarios. 2020 , 48, 20170347	3
109	Offline Vehicle Detection at Night Using Center Surround Extremas. 2015 , E98.A, 1727-1734	1
108	A COMPREHENSIVE SURVEY OF VISION BASED VEHICLE INTELLIGENT FRONT LIGHT SYSTEM. 2014 , 7, 701-723	10
107	Using Discriminative Parts for Vehicle Make and Model Recognition. 2018 , 15, 41-54	1
106	Vision-Based Vehicle Detection for a Forward Collision Warning System. <i>World Journal of Engineering and Technology</i> , 2017 , 05, 81-92	0.3 2
105	A Study on the Vehicle Detection and Tracking Using Forward Wide Angle Camera. 2018 , 26, 368-377	5
104	Real Time Vehicle Make and Model Recognition Based on Hierarchical Classification. 2014 , 4, 142-145	5
103	Nearby Vehicle Detection in the Adjacent Lane using In-vehicle Front View Camera. 2012 , 15, 996-1003	2
102	. 2021 ,	
101	Dual-Stream Siamese Network for Vehicle Re-Identification via Dilated Convolutional layers. 2021 ,	0
100	Parameter optimization of open-loop control of a circular cylinder by simplified reinforcement learning. 2021 , 33, 107110	4
99	Manifold-based aggregation clustering for unsupervised vehicle re-identification. 2022 , 235, 107624	2
98	A Texture-Based Algorithm for Vehicle Area Segmentation Using the Support Vector Machine Method. <i>Lecture Notes in Computer Science</i> , 2007 , 542-549	0.9
97	Current Movement and Future Perspective of Machine Vision Technology in ITS. 2007 , 127, 462-465	

96	Estimation of Velocity Fields and Propagation on Non-Euclidian Domains: Application to the Exploration of Cortical Spatiotemporal Dynamics. 2009 , 203-226		
95	Fast and simple vehicle logo location method. 2009 , 29, 1344-1348		1
94	Vehicle Detection Using Bayesian Enhanced CoBE Classification. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 713-719	0.2	
93	A Position Estimation Based on Tire-Road Contact Points Considering Displacements of Two Concentric Circles on a Circular Fisheye Image. 2010 , 23, 56-64		
92	Road Boundary Detection using Planar Projection Stereopsis. 2010 , 28, 639-647		
91	Road Surface Marking Classification Based on a Hierarchical Markov Model. <i>Lecture Notes in Computer Science</i> , 2011 , 348-359	0.9	
90	Real Time Vehicle Detection for Rear and Forward Collision Warning Systems. 2011 , 368-377		2
89	Forward Vehicle Detection Algorithm Using Column Detection and Bird's-Eye View Mapping Based on Stereo Vision. 2011 , 18B, 255-264		
88	FPGA-DSP Based Implementation of Lane and Vehicle Detection. 2011 , 36, 727-737		
87	Vision-Based Blind Spot Monitoring. 2012 , 1071-1087		3
86	An A-contrario Approach for Obstacle Detection in Assistance Driving Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 392-401	0.9	
85	Vehicle Recognition using NMF in Urban Scene. 2012 , 37, 554-564		3
84	Fast On-Road Vehicle Detection Using Reduced Multivariate Polynomial Classifier. 2012 , 37, 639-647		2
83	An improved method to detect and locate vehicles in images. 2012 ,		
82	Multiclass Vehicle Detection Based on Learning Method. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 63-69	0.2	
81	Vision Based Semantic Analysis of Surveillance Videos. 2013 , 83-125		2
80	Vanishing Point Detection Based on Infrared Road Images for Night Vision Navigation. <i>Lecture Notes in Computer Science</i> , 2013 , 611-617	0.9	2
79	Intersection Collision: Causes and Avoidance Techniques. 2013 , 189-227		

78	Enhanced Low-Cost Sensing Technologies for Vehicle On-Board Safety Applications (ADOSE Project). 2013 , 111-121		
77	Vehicle Detection and Tracking using Billboard Sweep Stereo Matching Algorithm. 2013 , 16, 764-781		1
76	Vehicle Trajectory Collection Using On-Board Multi-Lidars for Driving Behavior Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 659-671	0.4	1
75	Vehicle Detection Using Optimal Features for Adaboost. 2013 , 8, 1129-1135		1
74	Image Motion Processing in Visual Function. 2014 , 1-12		
73	Motion Detection. 2014 , 95-142		
72	Autonomous Tracking of Vehicle Taillights and Alert Signal Detection by Embedded Smart Cameras. 2014 , 121-150		1
71	Vision-Based Vehicle Detection and Tracking Using Online Learning. 2014 , 39A, 1-11		2
70	Novel Real-Time Automobile Detection Algorithm for Blind Spot Area. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 821-832	0.2	
69	Vehicle Recognition using Non-negative Tensor Factorization. 2015 , 52, 136-146		
68	Rapid Vehicle Retrieval Using a Cascade of Interest Regions. <i>Lecture Notes in Computer Science</i> , 2016 , 126-135	0.9	
67	Dump Truck Recognition Based on SCPSR in Videos. 2016 , 325-333		
66	Lower Tail Light Learning-based Forward Vehicle Detection System Irrelevant to the Vehicle Types. 2016 , 21, 609-620		2
65	Sensitive Information Detection on Cyber-Space. <i>Lecture Notes in Computer Science</i> , 2017 , 496-504	0.9	
64	Forward collision warning based on kernelized correlation filters. 2017 ,		
63	Augmented Forward Collision Warning System Based on Prediction of Vehicle Braking Distance. 2018 , 16, 21-28		
62	Real Time Estimation of Lane-by-Lane Arrival and Departure Profiles at Signalized Intersections with Two Low-Angle Cameras. 2018 ,		
61	A Personalized Driving Risk Evaluation Method Considering Driving Style.		

60	Vision-Based Techniques for Identifying Emergency Vehicles.		1
59	The Role of Intelligent Transport Systems in the Development of the Idea of Smart City. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 26-36	0.4	2
58	Solid state LiDAR with sensing distance of over 40m using a VCSEL beam scanner. 2020 ,		1
57	Detection of Traffic Signs and Road Users From a Moving Vehicle. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 345-360	0.4	
56	A QoE-based DASH Multicast Grouping Algorithm for Mobile Edge Computing. 2020 ,		1
55	Pattern Classification for Interpreting Sensor Data from a Walking-Speed Robot. 2020 , 247-295		
54	Video-Based Vehicle Flow Detection Algorithm. 2020 ,		
53	Foreign Object Debris Detection and Automatic Elimination for Autonomous Electric Vehicles Wireless Charging Application. 2020 , 9, 93-110		3
52	Analysis of 3D Scene Visual Characteristics Based on Virtual Modeling for Surveillance Sensors Parameters. <i>Studies in Systems, Decision and Control</i> , 2021 , 328-340	0.8	
51	A Review on Different Methods of Dynamic Obstacles Detection. 2020 ,		
50	TriSpaSurf: A Triple-View Outline Guided 3D Surface Reconstruction of Vehicles from Sparse Point Cloud. <i>Lecture Notes in Computer Science</i> , 2020 , 398-409	0.9	
49	HOSENet: Higher-Order Semantic Enhancement for Few-Shot Object Detection. <i>Lecture Notes in Computer Science</i> , 2020 , 175-186	0.9	
48	Dynamic Obstacle Detection Based on Probabilistic Moving Feature Recognition. <i>Springer Tracts in Advanced Robotics</i> , 2008 , 83-91	0.5	1
47	Particle Filter with Improved Proposal Distribution for Vehicle Tracking. <i>Lecture Notes in Computer Science</i> , 2008 , 422-431	0.9	1
46	A Unified Spatio-Temporal Description Model of Environment for Intelligent Vehicles. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 585-596	0.2	
45	Traffic Object Detection and Recognition Based on the Attentional Visual Field of Drivers. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 1-1	5	2
44	Optical Measurements using LED Discharge Photometry (PEDD Approach): Critical Timing Effects Identified & Corrected. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	0
43	Vision-Based Real Time Vehicle Detection: A Survey. <i>Lecture Notes in Networks and Systems</i> , 2022 , 747-760	5	0

42	A Bibliometric Overview of IEEE Transactions on Intelligent Transportation Systems (2000-2021). <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-22	6.1	0
41	Network-based structure flow estimation. 2020 ,		
40	Enhancing Precision of ResNet-RRC with Pruning. 2020 ,		0
39	A Systematic Review of Excessive Speed Monitoring and Control System for Accident Prevention on Cameroon Highways. <i>World Journal of Engineering and Technology</i> , 2022 , 10, 28-39	0.3	0
38	Detecting Humans in Search and Rescue Operations Based on Ensemble Learning. <i>IEEE Access</i> , 2022 , 10, 26481-26492	3.5	0
37	Human Identification Using Low-Resolution Thermal and High-Resolution RGB Images. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 235-245	0.2	
36	Automatic vehicle detection system in different environment conditions using fast R-CNN. <i>Multimedia Tools and Applications</i> ,	2.5	5
35	Moving-Vehicle Identification Based on Hierarchical Detection Algorithm. <i>Sustainability</i> , 2022 , 14, 264	3.6	
34	Improved Attentive Pairwise Interaction (API-Net) for Fine-Grained Image Classification. 2021 ,		
33	State Estimation and Motion Prediction of Vehicles and Vulnerable Road Users for Cooperative Autonomous Driving: A Survey. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-20	6.1	4
32	Efficient multi-model integration neural network framework for nighttime vehicle detection. <i>Multimedia Tools and Applications</i> , 1	2.5	
31	Why Slammed the Brakes On? Auto-annotating Driving Behaviors from Adaptive Causal Modeling. 2022 ,		0
30	Application of AI, IOT and ML for Business Transformation of The Automotive Sector. 2022 ,		0
29	Vehicle Intelligent Driving Technology. 2022 , 399-464		
28	One Stage Monocular 3D Object Detection Utilizing Discrete Depth and Orientation Representation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	0
27	Investigation on Self-Sensing Capability of Different Grades of Carbon Black in Cementitious Composites. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> ,	1.1	
26	Automatic vehicle detection system in Day and Night Mode: challenges, applications and panoramic review. <i>Evolutionary Intelligence</i> ,	1.7	0
25	A state-of-the-art survey of object detection techniques in microorganism image analysis: from classical methods to deep learning approaches. <i>Artificial Intelligence Review</i> ,	9.7	2

24	A Review on Anchor Assignment and Sampling Heuristics in Deep Learning-based Object Detection. <i>Neurocomputing</i> , 2022 ,	5.4	○
23	See the wind: Wind scale estimation with optical flow and VisualWind dataset. <i>Science of the Total Environment</i> , 2022 , 157204	10.2	○
22	Vehicle Recognition using Multi-Layer Perceptron and SMOTE Technique. 2022 ,		
21	Tracked-Vehicle Retrieval by Natural Language Descriptions With Domain Adaptive Knowledge. 2022 ,		○
20	DriBe: on-Road Mobile Telemetry for Locality-Neutral Driving Behavior Annotation. 2022 ,		○
19	Development of outdoor swimmers detection system with small object detection method based on deep learning.		○
18	Prediction of Emergency Mobility Under Diverse IoT Availability. 2022 , 8, e2		○
17	Vehicle Detection Approach Adjusting Road Curves to Estimate Local Traffic Density under Real Driving Conditions. 036119812211238		○
16	Regional Feature Learning using Structural Analysis of Attributes in a Bipartite Attention Framework for Vehicle Re-Identification.		○
15	Performance and Challenges of 3D Object Detection Methods in Complex Scenes for Autonomous Driving. 2022 , 1-18	2	
14	Wheeled Mobile Robots: State of the Art Overview and Kinematic Comparison Among Three Omnidirectional Locomotion Strategies. 2022 , 106,		○
13	Iterative Range and Road Parameters Estimation Using Monocular Camera on Highways. 2022 , 1-13		○
12	FPT: Fine-Grained Detection of Driver Distraction Based on the Feature Pyramid Vision Transformer. 2022 , 1-15		○
11	Perspective Chapter: Future Perspectives of Intelligent Autonomous Vehicles.		○
10	A Systematic Review of Traffic Incident Detection Algorithms. 2022 , 14, 14859		○
9	Provident vehicle detection at night for advanced driver assistance systems.		○
8	YOLOv5-based Vehicle Objects Detection Using UAV Images.		○
7	Long future frame prediction using optical flow-informed deep neural networks for enhancement of robotic teleoperation in high latency environments.		○

- 6 A multi-scale feature representation and interaction network for underwater object detection. ○
- 5 Lane Detection in Autonomous Vehicles: A Systematic Review. **2023**, 11, 3729-3765 ○
- 4 Real-time dense traffic detection using lightweight backbone and improved path aggregation feature pyramid network. **2023**, 31, 100427 ○
- 3 Intelligent detection method of rail transit abnormal events based on multi-scale computing. **2022**, ○
- 2 Advanced Vehicle Detection Heads-Up Display with TensorFlow Lite. **2023**, 631-647 ○
- 1 Risk Assessment and Enhancement Suggestions for Automated Driving Systems through Examining Testing Collision and Disengagement Reports. **2023**, 2023, 1-18 ○