

# Jean-Philippe Tarel

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

3,752  
citations

623734

14  
h-index

501196

28  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast visibility restoration from a single color or gray level image. , 2009, , .		889
2	BLIND CONTRAST ENHANCEMENT ASSESSMENT BY GRADIENT RATIOING AT VISIBLE EDGES. Image Analysis and Stereology, 2008, 27, 87.	0.9	600
3	Vision Enhancement in Homogeneous and Heterogeneous Fog. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 6-20.	3.8	348
4	Rain or Snow Detection in Image Sequences Through Use ofÂÂHistogram of Orientation of Streaks. International Journal of Computer Vision, 2011, 93, 348-367.	15.6	261
5	Automatic fog detection and estimation of visibility distance through use of an onboard camera. Machine Vision and Applications, 2006, 17, 8-20.	2.7	229
6	Improved visibility of road scene images under heterogeneous fog. , 2010, , .		171
7	Towards Fog-Free In-Vehicle Vision Systems through Contrast Restoration. , 2007, , .		135
8	Evaluation of Road Marking Feature Extraction. , 2008, , .		134
9	Improving the stability of algebraic curves for applications. IEEE Transactions on Image Processing, 2000, 9, 405-416.	9.8	75
10	The Guided Bilateral Filter: When the Joint/Cross Bilateral Filter Becomes Robust. IEEE Transactions on Image Processing, 2015, 24, 1199-1208.	9.8	72
11	Generalized histogram intersection kernel for image recognition. , 2005, , .		60
12	Road Sign Detection in Images: A Case Study. , 2010, , .		56
13	Detection and recognition of urban road markings using images. , 2011, , .		55
14	Mitigation of Visibility Loss for Advanced Camera-Based Driver Assistance. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 474-484.	8.0	49
15	Angle vertex and bisector geometric model for triangular road sign detection. , 2009, , .		44
16	Template-matching based detection of hyperbolas in ground-penetrating radargrams for buried utilities. Journal of Geophysics and Engineering, 2016, 13, 491-504.	1.4	40
17	The complex representation of algebraic curves and its simple exploitation for pose estimation and invariant recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 663-674.	13.9	38
18	Markov Random Field model for single image defogging. , 2013, , .		37

#	ARTICLE	IF	CITATIONS
19	Enhanced fog detection and free-space segmentation for car navigation. Machine Vision and Applications, 2014, 25, 667-679.	2.7	30
20	Conditionally Positive Definite Kernels for SVM Based Image Recognition. , 0, , .		29
21	Calibration of panoramic catadioptric sensors made easier. , 0, , .		26
22	The intermediate matching kernel for image local features. , 0, , .		24
23	Stereo Reconstruction and Contrast Restoration in Daytime Fog. Lecture Notes in Computer Science, 2013, , 13-25.	1.3	23
24	On the design of a single lane-markings detectors regardless the on-board camera's position. , 0, , .		22
25	NTIRE 2019 Image Dehazing Challenge Report. , 2019, , .		22
26	Alerting the drivers about road signs with poor visual saliency. , 2009, , .		21
27	Experimental Validation of Dedicated Methods to In-Vehicle Estimation of Atmospheric Visibility Distance. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2218-2225.	4.7	19
28	Using Robust Estimation Algorithms for Tracking Explicit Curves. Lecture Notes in Computer Science, 2002, , 492-507.	1.3	19
29	Robust road marking extraction in urban environments using stereo images. , 2010, , .		17
30	A Coarse to Fine 3D Registration Method Based on Robust Fuzzy Clustering. Computer Vision and Image Understanding, 1999, 73, 14-28.	4.7	15
31	Lane marking extraction with combination strategy and comparative evaluation on synthetic and camera images. , 2011, , .		15
32	Saliency Maps of High Dynamic Range Images. Lecture Notes in Computer Science, 2012, , 118-130.	1.3	15
33	Accurate and Robust Image Alignment for Road Profile Reconstruction. , 2007, , .		12
34	Assessment of statistical-based clutter reduction techniques on ground-coupled GPR data for the detection of buried objects in soils. , 2014, , .		11
35	Free-Form Object Reconstruction from Silhouettes, Occluding Edges and Texture Edges: A Unified and Robust Operator Based on Duality. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 131-146.	13.9	10
36	Vision models for image quality assessment: one is not enough. Journal of Electronic Imaging, 2010, 19, 043004.	0.9	9

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37	DÃ©tection des panneaux de signalisation routiÃ©re par accumulation bivariÃ©e. Traitement Du Signal, 2010, 27, 265-296.	1.3	9
38	A new complex basis for implicit polynomial curves and its simple exploitation for pose estimation and invariant recognition. , 1998, , .		8
39	The GCS Kernel for SVM-Based Image Recognition. Lecture Notes in Computer Science, 2005, , 595-600.	1.3	7
40	Covariant-Conics Decomposition of Quartics for 2D Shape Recognition and Alignment. Journal of Mathematical Imaging and Vision, 2003, 19, 255-273.	1.3	6
41	Combining Stereo and Atmospheric Veil Depth Cues for 3D Reconstruction. IPSJ Transactions on Computer Vision and Applications, 2014, 6, 1-11.	4.4	6
42	Adaptive sky detection and preservation in dehazing algorithm. , 2015, , .		6
43	Simultaneous Contrast Restoration and Obstacles Detection: First Results. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	5
44	Long-range road detection for off-line scene analysis. , 2009, , .		5
45	3D Road Environment Modeling Applied to Visibility Mapping: An Experimental Comparison. , 2012, , .		5
46	Backward Segmentation and Region Fitting for Geometrical Visibility Range Estimation. , 2007, , 817-826.		5
47	On the choice of similarity measures for image retrieval by example. , 2002, , .		4
48	A constrained-optimization based half-quadratic algorithm for robustly fitting sets of linearly parametrized curves. Advances in Data Analysis and Classification, 2008, 2, 227-239.	1.4	4
49	Distributed volumetric scene geometry reconstruction with a network of distributed smart cameras. , 2009, , .		4
50	Saliency maps of high dynamic range images. , 2009, , .		4
51	A unified linear fitting approach for singular and nonsingular 3D quadrics from occluding contours. , 2003, , .		3
52	Single Image Atmospheric Veil Removal Using New Priors for Better Genericity. Atmosphere, 2021, 12, 772.	2.3	3
53	A Revisited Half-Quadratic Approach for Simultaneous Robust Fitting of Multiple Curves. Communications in Computer and Information Science, 2008, , 121-133.	0.5	3
54	Robust fuzzy clustering for 3D registration. , 0, , .		2

#	ARTICLE	IF	CITATIONS
55	Perceptual Hysteresis Thresholding: Towards Driver Visibility Descriptors. , 2007, , .		2
56	Speeding up active relevance feedback with approximate <i>k</i> -NN retrieval for hyperplane queries. International Journal of Imaging Systems and Technology, 2008, 18, 150-159.	4.1	2
57	Vehicle attitude estimation in adverse weather conditions using a camera, a GPS and a 3D road map. , 2011, , .		2
58	Multi-objects interpretation. , 1996, , .		1
59	Visibility Restoration in Infra-Red Images. , 2021, , .		1
60	Single Image Atmospheric Veil Removal Using New Priors. , 2021, , .		1
61	Object Predetection Based on Kernel Parametric Distribution Fitting. , 2006, , .		0
62	An exploration of diversified user strategies for image retrieval with relevance feedback. Journal of Visual Languages and Computing, 2008, 19, 629-636.	1.8	0
63	A Lagrangian Half-Quadratic approach to robust estimation and its applications to road scene analysis. Pattern Recognition Letters, 2010, 31, 2192-2200.	4.2	0
64	Robust 2D location of interest points by accumulation. , 2012, , .		0
65	Extending $\ell_1$ -expansion to a larger set of regularization functions. , 2015, , .		0
66	Stereo ambiguity index for semi-global matching. , 2017, , .		0
67	Two Images Comparison with Invariance to Illumination Properties. , 2019, , .		0
68	Distributed volumetric scene geometry reconstruction with a network of distributed smart cameras. , 2009, , .		0