Jean-Philippe Tarel

List of Publications by Year
in descending order

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	Visibility Restoration in Infra-Red Images. , 2021, , .		1
2	Single Image Atmospheric Veil Removal Using New Priors for Better Genericity. Atmosphere, 2021, 12, 772.	2.3	3
3	Single Image Atmospheric Veil Removal Using New Priors. , 2021, , .		1
4	NTIRE 2019 Image Dehazing Challenge Report. , 2019, , .		22
5	Two Images Comparison with Invariance to Illumination Properties. , 2019, , .		0
6	Stereo ambiguity index for semi-global matching. , 2017, , .		0
7	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
8	Adaptive sky detection and preservation in dehazing algorithm. , 2015, , .		6
9	Extending &#x03B1;-expansion to a larger set of regularization functions. , 2015, , .		0
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	Assessment of statistical-based clutter reduction techniques on ground-coupled GPR data for the detection of buried objects in soils. , 2014, , .		11
12	Enhanced fog detection and free-space segmentation for car navigation. Machine Vision and Applications, 2014, 25, 667-679.	2.7	30
13	Combining Stereo and Atmospheric Veil Depth Cues for 3D Reconstruction. IPSJ Transactions on Computer Vision and Applications, 2014, 6, 1-11.	4.4	6
14	Markov Random Field model for single image defogging. , 2013, , .		37
15	Stereo Reconstruction and Contrast Restoration in Daytime Fog. Lecture Notes in Computer Science, 2013, , 13-25.	1.3	23
16	Robust 2D location of interest points by accumulation. , 2012, , .		0
17	3D Road Environment Modeling Applied to Visibility Mapping: An Experimental Comparison. , 2012, , .		5
18	Vision Enhancement in Homogeneous and Heterogeneous Fog. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 6-20.	3.8	348

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19	Saliency Maps of High Dynamic Range Images. Lecture Notes in Computer Science, 2012, , 118-130.	1.3	15
20	Vehicle attitude estimation in adverse weather conditions using a camera, a GPS and a 3D road map. , 2011, , .		2
21	Detection and recognition of urban road markings using images. , 2011, , .		55
22	Lane marking extraction with combination strategy and comparative evaluation on synthetic and camera images. , 2011, , .		15
23	Rain or Snow Detection in Image Sequences Through Use ofÂaÂHistogram of Orientation of Streaks. International Journal of Computer Vision, 2011, 93, 348-367.	15.6	261
24	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
25	Vision models for image quality assessment: one is not enough. Journal of Electronic Imaging, 2010, 19, 043004.	0.9	9
26	Robust road marking extraction in urban environments using stereo images. , 2010, , .		17
27	Road Sign Detection in Images: A Case Study. , 2010, , .		56
28	Mitigation of Visibility Loss for Advanced Camera-Based Driver Assistance. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 474-484.	8.0	49
29	Improved visibility of road scene images under heterogeneous fog. , 2010, , .		171
30	DÃ©tection des panneaux de signalisation routiÃ¨re par accumulation bivariÃ©e. Traitement Du Signal, 2010, 27, 265-296.	1.3	9
31	Distributed volumetric scene geometry reconstruction with a network of distributed smart cameras. , 2009, , .		4
32	Saliency maps of high dynamic range images. , 2009, , .		4
33	Long-range road detection for off-line scene analysis. , 2009, , .		5
34	Fast visibility restoration from a single color or gray level image. , 2009, , .		889
35	Angle vertex and bisector geometric model for triangular road sign detection. , 2009, , .		44
36	Alerting the drivers about road signs with poor visual saliency. , 2009, , .		21

#	Article	IF	Citations
37	Distributed volumetric scene geometry reconstruction with a network of distributed smart cameras. , 2009, , .		0
38	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
39	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
40	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
41	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
42	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
43	Evaluation of Road Marking Feature Extraction. , 2008, , .		134
44	A Revisited Half-Quadratic Approach for Simultaneous Robust Fitting of Multiple Curves. Communications in Computer and Information Science, 2008, , 121-133.	0.5	3
45	BLIND CONTRAST ENHANCEMENT ASSESSMENT BY GRADIENT RATIOING AT VISIBLE EDGES. Image Analysis and Stereology, 2008, 27, 87.	0.9	600
46	Towards Fog-Free In-Vehicle Vision Systems through Contrast Restoration. , 2007, , .		135
47	Accurate and Robust Image Alignment for Road Profile Reconstruction. , 2007, , .		12
48	Perceptual Hysteresis Thresholding: Towards Driver Visibility Descriptors. , 2007, , .		2
49	Simultaneous Contrast Restoration and Obstacles Detection: First Results. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	5
50	Backward Segmentation and Region Fitting for Geometrical Visibility Range Estimation. , 2007, , 817-826.		5
51	Object Predetection Based on Kernel Parametric Distribution Fitting. , 2006, , .		0
52	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
53	Generalized histogram intersection kernel for image recognition. , 2005, , .		60
54	The GCS Kernel for SVM-Based Image Recognition. Lecture Notes in Computer Science, 2005, , 595-600.	1.3	7

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55	Covariant-Conics Decomposition of Quartics for 2D Shape Recognition and Alignment. Journal of Mathematical Imaging and Vision, 2003, 19, 255-273.	1.3	6
56	A unified linear fitting approach for singular and nonsingular 3D quadrics from occluding contours. , 2003, , .		3
57	On the choice of similarity measures for image retrieval by example. , 2002, , .		4
58	Using Robust Estimation Algorithms for Tracking Explicit Curves. Lecture Notes in Computer Science, 2002, , 492-507.	1.3	19
59	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
60	Improving the stability of algebraic curves for applications. IEEE Transactions on Image Processing, 2000, 9, 405-416.	9.8	75
61	A Coarse to Fine 3D Registration Method Based on Robust Fuzzy Clustering. Computer Vision and Image Understanding, 1999, 73, 14-28.	4.7	15
62	A new complex basis for implicit polynomial curves and its simple exploitation for pose estimation and invariant recognition. , 1998, , .		8
63	Multi-objects interpretation. , 1996, , .		1
64	Robust fuzzy clustering for 3D registration. , 0, , .		2
65	Calibration of panoramic catadioptric sensors made easier. , 0, , .		26
66	On the design of a single lane-markings detectors regardless the on-board camera's position. , 0, , .		22
67	The intermediate matching kernel for image local features. , 0, , .		24
68	Conditionally Positive Definite Kernels for SVM Based Image Recognition. , 0, , .		29