Carlo S Regazzoni

List of Publications by Citations

286 papers	**3,067** citations
25 h-index	**44** g-index
363 ext. papers	**3,773** ext. citations
3.8 avg, IF	**5.26** L-index

#	Paper	IF	Citations
286	Synthesis of unequally spaced arrays by simulated annealing. *IEEE Transactions on Signal Processing*, **1996**, 44, 119-122	4.8	212
285	Abnormal event detection in videos using generative adversarial nets **2017**,		162
284	Spectrum sensing: A distributed approach for cognitive terminals. *IEEE Journal on Selected Areas in Communications*, **2007**, 25, 546-557	14.2	143
283	The Evolution of First Person Vision Methods: A Survey. *IEEE Transactions on Circuits and Systems for Video Technology*, **2015**, 25, 744-760	6.4	124
282	Real-time video-shot detection for scene surveillance applications. *IEEE Transactions on Image Processing*, **2000**, 9, 69-79	8.7	83
281	Special issue on video communications, processing, and understanding for third generation surveillance systems. *Proceedings of the IEEE*, **2001**, 89, 1355-1539	14.3	70
280	Distributed data fusion for real-time crowding estimation. *Signal Processing*, **1996**, 53, 47-63	4.4	69
279	Video Analytics for Surveillance: Theory and Practice [From the Guest Editors]. *IEEE Signal Processing Magazine*, **2010**, 27, 16-17	9.4	47
278	A distributed surveillance system for detection of abandoned objects in unmanned railway environments. *IEEE Transactions on Vehicular Technology*, **2000**, 49, 2013-2026	6.8	47
277	. *Proceedings of the IEEE*, **2001**, 89, 1419-1440	14.3	47
276	Dual camera intelligent sensor for high definition 360 degrees surveillance. *IET Computer Vision*, **2005**, 152, 250		46
275	Particle PHD Filtering for Multi-Target Visual Tracking **2007**,		42
274	Cognitive Radios With Multiple Antennas Exploiting Spatial Opportunities. *IEEE Transactions on Signal Processing*, **2010**, 58, 4453-4459	4.8	41
273	Advanced image-processing tools for counting people in tourist site-monitoring applications. *Signal Processing*, **2001**, 81, 1017-1040	4.4	39
272	Vehicle recognition and tracking from road image sequences. *IEEE Transactions on Vehicular Technology*, **1999**, 48, 301-318	6.8	36
271	A distributed probabilistic system for adaptive regulation of image processing parameters. *IEEE Transactions on Systems, Man, and Cybernetics*, **1996**, 26, 1-20		36
270	. *IEEE Transactions on Multimedia*, **2002**, 4, 459-471	6.6	35

269	Image stabilization algorithms for video-surveillance applications		35
268	Online Nonparametric Bayesian Activity Mining and Analysis From Surveillance Video. *IEEE Transactions on Image Processing*, **2016**, 25, 2089-102	8.7	33
267	A probabilistic approach to the coupled reconstruction and restoration of underwater acoustic images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **1998**, 20, 9-22	13.3	33
266	A Sequential Classifier for Hand Detection in the Framework of Egocentric Vision **2014**,		32
265	A new approach to vector median filtering based on space filling curves. *IEEE Transactions on Image Processing*, **1997**, 6, 1025-37	8.7	31
264	Use of Time-Frequency Analysis and Neural Networks for Mode Identification in a Wireless Software-Defined Radio Approach. *Eurasip Journal on Advances in Signal Processing*, **2004**, 2004, 1	1.9	28
263	Interaction Analysis with a Bayesian Trajectory Model. *IEEE Intelligent Systems*, **2010**, 25, 32-40	4.2	26
262	Designing for action: An evaluation of Social Recipes in reducing food waste. *International Journal of Human Computer Studies*, **2017**, 100, 18-32	4.6	25
261	Classification of Unattended and Stolen Objects in Video-Surveillance System **2006**,		25
260	. *IEEE Transactions on Circuits and Systems for Video Technology*, **2015**, 25, 776-789	6.4	24
259			24
258	Learning Switching Models for Abnormality Detection for Autonomous Driving **2018**,		24
257	Bayesian Tracking for Video Analytics. *IEEE Signal Processing Magazine*, **2010**, 27, 46-55	9.4	23
256	HOS-based generalized noise pdf models for signal detection optimization. *Signal Processing*, **1998**, 65, 267-281	4.4	23
255	Early fire and smoke detection based on colour features and motion analysis **2012**,		21
254	A voting-based approach for fast object recognition in underwater acoustic images. *IEEE Journal of Oceanic Engineering*, **1997**, 22, 57-65	3.3	21
253			20
252	AI-Based Abnormality Detection at the PHY-Layer of Cognitive Radio by Learning Generative Models. *IEEE Transactions on Cognitive Communications and Networking*, **2020**, 6, 21-34	6.6	19

251	. *IEEE Transactions on Vehicular Technology*, **2002**, 51, 1165-1185	6.8	19
250	. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **1994**, 41, 621-630	3.2	19
249	Intelligent cognitive radio jamming - a game-theoretical approach. *Eurasip Journal on Advances in Signal Processing*, **2014**, 2014,	1.9	18
248			17
247	Unsupervised trajectory pattern classification using hierarchical Dirichlet Process Mixture hidden Markov model **2014**,		16
246	Interaction Modeling and Prediction in Smart Spaces: A Bio-Inspired Approach Based on Autobiographical Memory. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2010**, 40, 1191-1205		16
245	Circular arc extraction by direct clustering in a 3D Hough parameter space. *Signal Processing*, **1995**, 41, 203-224	4.4	16
244	Distributed spatial reasoning for multisensory image interpretation. *Signal Processing*, **1993**, 32, 217-255	4.4	16
243	A fictitious play-based game-theoretical approach to alleviating jamming attacks for cognitive radios **2014**,		15
242	W-band physical layer design issues in the context of the DAVID-DCE experiment. *International Journal of Satellite Communications and Networking*, **2004**, 22, 193-215	1.7	15
241	Robust tracking of humans and vehicles in cluttered scenes with occlusions		15
240	Effects of Ambient Lighting Displays on Peripheral Activity Awareness. *IEEE Access*, **2017**, 5, 9318-9335	3.5	14
239	Static force field representation of environments based on agents nonlinear motions. *Eurasip Journal on Advances in Signal Processing*, **2017**, 2017,	1.9	14
238	Towards a unified framework for hand-based methods in First Person Vision **2015**,		14
237	Radio map fusion for indoor positioning in wireless local area networks **2005**,		14
236	Grouping as a Searching Process for Minimum-Energy Configurations of Labelled Random Fields. *Computer Vision and Image Understanding*, **1996**, 64, 157-174	4.3	14
235	A multilevel GMRF-based approach to image segmentation and restoration. *Signal Processing*, **1993**, 34, 43-67	4.4	14
234	**2018**,		14

233	A New Method for Real Time Abandoned Object Detection and Owner Tracking **2006**,		13
232	Structured context-analysis techniques in biologically inspired ambient-intelligence systems. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2005**, 35, 106-120		13
231	Visual-centric surveillance networks and services [Guest Editorial]. *IEEE Signal Processing Magazine*, **2005**, 22, 12-15	9.4	13
230	Dual camera system for face detection in unconstrained environments		13
229	Adaptive camera regulation for investigation of real scenes. *IEEE Transactions on Industrial Electronics*, **1996**, 43, 588-600	8.9	13
228	The asymmetric generalized Gaussian function: a new HOS-based model for generic noise pdfs		13
227	Extension of IBIS for 3D organ recognition in NMR multislices. *Pattern Recognition Letters*, **1988**, 8, 65-72	4.7	13
226	A Dynamic Approach and a New Dataset for Hand-detection in First Person Vision. *Lecture Notes in Computer Science*, **2015**, 274-287	0.9	13
225	Promoting Social Connectedness through Human Activity-Based Ambient Displays **2016**,		13
224	Re-framing the characteristics of concepts and their relation to learning and cognition in artificial agents. *Cognitive Systems Research*, **2017**, 44, 50-68	4.8	12
223			12
222	a Multi-Perspective Approach to Anomaly Detection for Self -Aware Embodied Agents **2018**,		12
221	People Count Estimation In Small Crowds **2012**,		11
220	OFDM Recognition Based on Cyclostationary Analysis in an Open Spectrum Scenario **2009**,		11
219	Automatic detection of dangerous events for underground surveillance		11
218	A hierarchical approach to feature extraction and grouping. *IEEE Transactions on Image Processing*, **2000**, 9, 1056-74	8.7	11
217	Multisensorial Generative and Descriptive Self-Awareness Models for Autonomous Systems. *Proceedings of the IEEE*, **2020**, 108, 987-1010	14.3	11
216	Bayesian Analysis of Behaviors and Interactions for Situation Awareness in Transportation Systems. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 313-322	6.1	10

215	Crowd Emotion Detection Using Dynamic Probabilistic Models. *Lecture Notes in Computer Science*, **2014**, 328-337	0.9	10
214			10
213	Real-time approach to 3-D object tracking in complex scenes. *Electronics Letters*, **1994**, 30, 475-477	1.1	10
212	. *IEEE Transactions on Vehicular Technology*, **1994**, 43, 389-406	6.8	10
211	Grouping of Rectilinear Segments by the Labeled Hough Transform. *Computer Vision and Image Understanding*, **1994**, 59, 22-42	4.3	10
210	Left/right hand segmentation in egocentric videos. *Computer Vision and Image Understanding*, **2017**, 154, 73-81	4.3	9
209	**2005**,		9
208	A neural network-based image processing system for detection of vandal acts in unmanned railway environments		9
207	ROC curves for performance evaluation of video sequences processing systems for surveillance applications **1999**,		9
206	Distributed propagation of a-priori constraints in a Bayesian network of Markov random fields. *IEE Proceedings, Part I: Communications, Speech and Vision*, **1993**, 140, 46		9
205	Bio-inspired relevant interaction modelling in cognitive crowd management. *Journal of Ambient Intelligence and Humanized Computing*, **2015**, 6, 171-192	3.7	8
204	Correlation-based self-correcting tracking. *Neurocomputing*, **2015**, 152, 345-358	5.4	8
203	. *IEEE Internet of Things Journal*, **2020**, 7, 3774-3789	10.7	8
202	Multi-camera object tracking using surprisal observations in visual sensor networks. *Eurasip Journal on Advances in Signal Processing*, **2016**, 2016,	1.9	8
201	Cyclostationary-based jammer detection algorithm for wide-band radios using compressed sensing **2015**,		8
200	Online pedestrian group walking event detection using spectral analysis of motion similarity graph **2015**,		8
199	Filtering SVM frame-by-frame binary classification in a detection framework **2015**,		8
198	Self-organizing shape description for tracking and classifying multiple interacting objects. *Image and Vision Computing*, **2006**, 24, 1179-1191	3.7	8

197	A novel method for graffiti detection using change detection algorithm		8
196	Learning Probabilistic Awareness Models for Detecting Abnormalities in Vehicle Motions. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 21, 1308-1320	6.1	8
195	Dynamic Bayesian Approach for decision-making in Ego-Things **2019**,		7
194	A particle filter based sequential trajectory classifier for behavior analysis in video surveillance **2015**,		7
193	Distributed Cognitive Sensor Network Approach for Surveillance Applications **2009**,		7
192	Use of intelligent sensors and software radio technologies for optimal design of reconfigurable multimedia surveillance networks **2001**, 39, 156-163		7
191	Higher-order-statistics-based sharpness evaluation of a generalized Gaussian PDF model in impulsive noisy environments		7
190	Grouping of Rectilinear Segments by the Labeled Hough Transform. *CVGIP Image Understanding*, **1994**, 59, 22-42		7
189	Improving Awareness and Social Connectedness through the Social Hue **2016**,		7
188	A Cognitive Control-Inspired Approach to Object Tracking. *IEEE Transactions on Image Processing*, **2016**, 25, 2697-2711	8.7	7
187	Performance Evaluation Strategies of an Image Processing System for Surveillance Applications **1999**, 76-90		7
186	Clustering Optimization for Abnormality Detection in Semi-Autonomous Systems **2019**,		6
185	Learning a Switching Bayesian Model for Jammer Detection in the Cognitive-Radio-Based Internet of Things **2019**,		6
184	Cognitive Radio as the Facilitator for Advanced Communications Electronic Warfare Solutions. *Journal of Signal Processing Systems*, **2016**, 83, 29-44	1.4	6
183	**2013**,		6
182	Analysis of Energy Detector in Cooperative Relay Networks for Cognitive Radios **2013**,		6
181	Bio-inspired probabilistic model for crowd emotion detection **2014**,		6
180	Comparison among Cognitive Radio Architectures for Spectrum Sensing. *Eurasip Journal on Wireless Communications and Networking*, **2011**, 2011,	3.2	6

179	A real-time model-based method for 3-D object orientation estimation in outdoor scenes. *IEEE Signal Processing Letters*, **1997**, 4, 248-251	3.2	6
178	A particle filter based fusion framework for video-radio tracking in smart spaces **2007**,		6
177	Neural network-based techniques for efficient detection of variable-bit-rate signals in MC-CDMA systems working over LEO satellite networks. *Signal Processing*, **2005**, 85, 505-522	4.4	6
176	Change detection methods for automatic scene analysis by using mobile surveillance cameras		6
175	Distributed hierarchical regularization system for recognition of planar surfaces. *Optical Engineering*, **1993**, 32, 1167	1.1	6
174			6
173	Perception of Human Activities - A Means to Support Connectedness Between the Elderly and Their Caregivers **2015**,		6
172	Anomaly Detection in Video Data Based on Probabilistic Latent Space Models **2020**,		6
171	Prediction of Multi-target Dynamics Using Discrete Descriptors: an Interactive Approach **2019**,		5
170	Optimizing Superpixel Clustering for Real-Time Egocentric-Vision Applications. *IEEE Signal Processing Letters*, **2015**, 22, 469-473	3.2	5
169	Event Based Switched Dynamic Bayesian Networks for Autonomous Cognitive Crowd Monitoring. *Augmented Vision and Reality*, **2014**, 93-122		5
168	A bio-inspired system model for interactive surveillance applications. *Journal of Ambient Intelligence and Smart Environments*, **2011**, 3, 147-163	2.2	5
167	Multi-Modal Data Fusion Techniques and Applications **2009**, 213-237		5
166	Application to locally optimum detection of a new noise model		5
165	A Bio-inspired Learning Approach for the Classification of Risk Zones in a Smart Space **2007**,		5
164	Multisensor surveillance systems based on image and video data		5
163	Performance evaluation of MC-CDMA techniques for variable bit-rate transmission in LEO satellite networks		5
162	Non-Gaussian characterization of DS/CDMA noise in few-user systems with complex signature sequences. *IEEE Transactions on Signal Processing*, **1999**, 47, 234-237	4.8	5

161	Distributed extended Kalman filtering network for estimation and tracking of multiple objects. *Electronics Letters*, **1994**, 30, 1202-1203	1.1	5
160	Opportunistic Spectrum Sensing and Transmissions. *Advances in Wireless Technologies and Telecommunication Book Series*,1-28	0.2	5
159	Jammer detection in M-QAM-OFDM by learning a Dynamic Bayesian Model for the Cognitive Radio **2019**,		5
158	Learning Self-Awareness for Autonomous Vehicles: Exploring Multisensory Incremental Models. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 3372-3386	6.1	5
157	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	5
156	Hierarchy of Gans for Learning Embodied Self-Awareness Model **2018**,		5
155	Distributed belief revision for adaptive image processing regulation. *Lecture Notes in Computer Science*, **1992**, 87-91	0.9	5
154	Towards a Deeper Understanding of the Behavioural Implications of Bidirectional Activity-Based Ambient Displays in Ambient Assisted Living Environments. *Lecture Notes in Computer Science*, **2019** , 108-151	0.9	4
153	Realistic Modeling of Agents in Crowd Simulations **2014**,		4
152	Unsupervised understanding of location and illumination changes in egocentric videos. *Pervasive and Mobile Computing*, **2017**, 40, 414-429	3.5	4
151	Compressed sensing based jammer detection algorithm for wide-band cognitive radio networks **2015**,		4
150	Perception of emotions from crowd dynamics **2015**,		4
149	A bio-inspired logical process for saliency detections in cognitive crowd monitoring **2015**,		4
148	Energy Detection in Multihop Cooperative Diversity Networks: An Analytical Study. *International Journal of Distributed Sensor Networks*, **2014**, 10, 453248	1.7	4
147	Distributed cognitive radio architecture with automatic frequency switching **2012**,		4
146	Computationally Efficient Compressive Sensing in Wideband Cognitive Radios **2013**,		4
145	A Bayesian Network for online evaluation of sparse features based multitarget tracking **2012**,		4
144	Circuit realization of Markov random fields for analog image processing. *International Journal of Circuit Theory and Applications*, **1998**, 26, 477-498	2	4

143	A Distributed Wireless Sensor Network for Radio Scene Analysis. *International Journal of Distributed Sensor Networks*, **2006**, 2, 201-223	1.7	4
142	Video-radio fusion approach for target tracking in smart spaces **2007**,		4
141	A novel positioning system for static location estimation employing WLAN in indoor environment		4
140	Cooperative multisensor system for real-time face detection and tracking in uncontrolled conditions **2005**,		4
139	A multi-feature object association framework for overlapped field of view multi-camera video surveillance systems		4
138	A video surveillance architecture for alarm generation and video sequences retrieval		4
137	Remote cable-based video surveillance applications: the AVS-RIO project		4
136	Localisation and tracking of multiple unknown objects in real environments. *Electronics Letters*, **1995**, 31, 355-356	1.1	4
135	Security in Cognitive Radio Networks. *Advances in Wireless Technologies and Telecommunication Book Series*, **2013**, 301-335	0.2	4
134	A long term change detection method for surveillance applications. *Lecture Notes in Computer Science*, **1997**, 485-492	0.9	4
133	Optimization of Probabilistic Switching Models Based on a Two-Step Clustering Approach **2020**,		4
132	A Hierarchical Bayesian Model for Crowd Emotions. *Frontiers in Computational Neuroscience*, **2016**, 10, 63	3.5	4
131	CNN-aware binary MAP for general semantic segmentation **2016**,		4
130	Fast but Not Deep: Efficient Crowd Abnormality Detection with Local Binary Tracklets **2018**,		4
129	Use of Advanced Video Surveillance and Communication Technologies for Remote Monitoring of Protected Sites **1999**, 154-164		4
128	Interference mitigation in wideband radios using spectrum correlation and neural network. *IET Communications*, **2019**, 13, 1336-1347	1.3	3
127	Smart Jammer Detection for Self-Aware Cognitive UAV Radios **2020**,		3
126	Jammer detection algorithm for wide-band radios using spectral correlation and neural networks **2017**,		3

125   Dynamic representations for autonomous driving **2017**,   3

124   Opportunistic Spectrum Access of Sparse Wideband in Stand-Alone and Cooperative Cognitive Radio Networks **2015**,   3

123   Performance Evaluation of Multi-camera Visual Tracking **2012**,   3

122   Resource coordination in Wireless Sensor Networks by combinatorial auction based method **2012**,   3

121   Bayesian Bio-inspired Model for Learning Interactive Trajectories **2009**,   3

120   Online failure detection and correction for Bayesian sparse feature-based object tracking **2011**,   3

119   A Belief-Based Approach for Adaptive Image Processing. *International Journal of Pattern Recognition and Artificial Intelligence*, **1997**, 11, 359-392   1.1   3

118   Tracking by using dynamic shape model learning in the presence of occlusion **2007**,   3

117   Dynamic Scene Reconstruction for Efficient Remote Surveillance **2006**,   3

116   MAP Particle Selection in Shape-Based Object Tracking **2007**,   3

115   Neural Networks Mode Classification based on Frequency Distribution Features **2007**,   3

114   From multi-sensor surveillance towards smart interactive spaces **2003**,   3

113   A real-time algorithm for error recovery in remote video-based surveillance applications. *Signal Processing: Image Communication*, **2002**, 17, 165-186   2.8   3

112   SOM based algorithm for video surveillance system parameter optimal selection   3

111   Smart cameras with real-time video object generation   3

110   Group-membership reinforcement for straight edges based on Bayesian networks. *IEEE Transactions on Image Processing*, **1998**, 7, 1321-39   8.7   3

109   Multimedia communication techniques for remote cable-based video-surveillance systems   3

108   Human body modelling for people localization and tracking from real image sequences **1995**,   3

107	HOS-based noise models for signal detection optimization in non-Gaussian environments		3
106			3
105			3
104			3
103			3
102	A Coupled Mrf Model for Sar Image Restoration and Edge-Extraction		3
101	Data Fusion Approach To Obstacle Detection And Identification **1989**,		3
100	A new adaptive approach to picture coding. *Annales Des Telecommunications/Annals of Telecommunications*, **1990**, 45, 503-518	2	3
99	Hand pose recognition in First Person Vision through graph spectral analysis **2017**,		3
98	Self-Learning Bayesian Generative Models for Jammer Detection in Cognitive-UAV-Radios **2020**,		3
97	GPU Accelerated Left/Right Hand-Segmentation in First Person Vision. *Lecture Notes in Computer Science*, **2016**, 504-517	0.9	3
96	Incremental Learning of Abnormalities in Autonomous Systems **2019**,		3
95	Event definition for stability preservation in bio-inspired cognitive crowd monitoring **2013**,		2
94	Average consensus-based asynchronous tracking **2017**,		2
93	Modeling and classification of trajectories based on a Gaussian process decomposition into discrete components **2017**,		2
92	Active estimation of motivational spots for modeling dynamic interactions **2017**,		2
91	Cyclostationary-based jammer detection for wideband radios using compressed sensing and artificial neural network. *International Journal of Distributed Sensor Networks*, **2017**, 13, 155014771774890	17	2
90	Stealthy jammer detection algorithm for wide-band radios: A physical layer approach **2017**,		2

89	Improved Throughput Performance in Wideband Cognitive Radios via Compressive Sensing **2013**,		2
88	Fast and correspondence-less camera motion estimation based on voting mechanism and morton codes **2010**,		2
87	A comparison among cooperative spectrum sensing approaches for cognitive radios **2010**,		2
86	Efficient framework for extended visual object tracking **2011**,		2
85	A general Bayesian algorithm for visual object tracking based on sparse features **2011**,		2
84	Signal classification based on spectral redundancy and neural network ensembles **2009**,		2
83	Multitarget tracking with a corner-based particle filter **2009**,		2
82			2
81	A Markovian approach to color image restoration based on space filling curves		2
80	Multiple cue adaptive tracking of deformable objects with Particle Filter **2008**,		2
79	Feature Classification for Robust Shape-Based Collaborative Tracking and Model Updating. *Eurasip Journal on Image and Video Processing*, **2008**, 2008, 1-21	2.5	2
78	Tracking Using Continuous Shape Model Learning in the Presence of Occlusion. *Eurasip Journal on Advances in Signal Processing*, **2008**, 2008,	1.9	2
77	An agent-based approach for tracking people in indoor complex environments		2
76	A mode identification system for a reconfigurable terminal using Wigner distribution and non-parametric classifiers		2
75	Maximum likelihood estimation of carrier offset in a variable bit rate orthogonal multicarrier CDMA		2
74	VIDEO PROCESSING AND UNDERSTANDING TOOLS FOR AUGMENTED MULTISENSOR PERCEPTION AND MOBILE USER INTERACTION IN SMART SPACES. *International Journal of Image and Graphics*, **2005**, 05, 679-698	0.5	2
73	A novel camera calibration algorithm based on Kalman filter		2
72	Joint video-shot and layer indexing in video-surveillance application		2

71	Statistical morphological skeleton for representing and coding noisy shapes. *IET Computer Vision*, **1999**, 146, 85		2
70	A HOUGH-BASED MATCHING OF 2D LINE SEGMENTS IN A MONOCULAR IMAGE SEQUENCE. *International Journal of Pattern Recognition and Artificial Intelligence*, **1996**, 10, 687-710	1.1	2
69			2
68	A Framework For High-Compression Coding Of Color Images **1989**,		2
67	Exploiting ST-Based Representation for High Sampling Rate Dynamic Signals. *Lecture Notes on Data Engineering and Communications Technologies*, **2019**, 203-217	0.4	2
66	Application of Bayesian Techniques to Behavior Analysis in Maritime Environments. *Smart Innovation, Systems and Technologies*, **2015**, 175-183	0.5	2
65	Evaluating Human Activity-Based Ambient Lighting Displays for Effective Peripheral Communication **2017**,		2
64	Deep Learning for Spectrum Anomaly Detection in Cognitive mmWave Radios **2020**,		2
63	Unsupervised Trajectory Modeling Based on Discrete Descriptors for Classifying Moving Objects in Video Sequences **2018**,		2
62	ANOMALY DETECTION IN CROWDS USING MULTI SENSORY INFORMATION **2018**,		2
61	Data-driven transition matrix estimation in probabilistic learning models for autonomous driving. *Signal Processing*, **2021**, 188, 108170	4.4	2
60	Introduction to the Special Section on Deep Learning for Visual Surveillance. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 2535-2537	6.4	1
59	Defense against jamming attacks in wide-band radios using cyclic spectral analysis and compressed sensing **2017**,		1
58	Defense against stealthy jamming attacks in wide-band radios: A physical layer approach **2017**,		1
57	**2017**,		1
56	Advantages of dynamic analysis in HOG-PCA feature space for video moving object classification **2015**,		1
55	Exploiting an event based state estimator in presence of sparse measurements in video analytics **2014**,		1
54	Design implications for a community-based social recipe system **2014**,		1

53	Asymptotic detection performance of energy detector in fixed-gain cooperative relay networks **2014**,		1
52	Online Bayesian learning and classification of ship-to-ship interactions for port safety **2014**,		1
51	GHT based implementation of the expectation maximization for mixtures of multi-Gaussians and its applications to video tracking **2010**,		1
50	Human action recognition using the motion of interest points **2010**,		1
49	A Comparison between Stand-Alone and Distributed Architectures for Spectrum Hole Detection **2010**,		1
48	Interaction modeling in automotive applications: A cognitive approach **2011**,		1
47	A Comparison of Different Approaches to Nonlinear Shift Estimation for Object Tracking **2007**,		1
46	A Nonlinear-Shift Approach to Object Tracking Based on Shape Information **2007**,		1
45	A multicamera fusion framework for multiple occluding objects tracking in intelligent monitoring and sport viewing applications		1
44	A dynamic model integrating colour and shape information for objects tracking in conditions of occlusion		1
43	Video and Radio Attributes Extraction For Heterogeneous Location Estimation **2005**, 63-87		1
42	Extending Real Time Change-Detection Techniques to Mosaic Backgrounds and Mobile Camera Sequences in Surveillance Systems. *IETE Journal of Research*, **2002**, 48, 151-161	0.9	1
41	"A multi-resolution outdoor dual camera system for robust video-event metadata extraction"		1
40	Automatic generation of the statistical model of a non-rigid object in a multiple-camera environment		1
39	Recognition driven burst transmissions in distributed third generation surveillance systems		1
38	Correlation bandwidth characteristics for paths between base station and building roofs. *IEEE Transactions on Vehicular Technology*, **1999**, 48, 295-300	6.8	1
37	Real-time error correction algorithm for noise-corrupted JPEG bit-streams. *Electronics Letters*, **1999**, 35, 1147	1.1	1
36	A Gibbs Markov random field model for active imaging at microwave frequencies. *Signal Processing*, **1995**, 47, 169-185	4.4	1

35	A MULTILEVEL FUSION APPROACH TO OBJECT IDENTIFICATION IN OUTDOOR ROAD SCENES. *International Journal of Pattern Recognition and Artificial Intelligence*, **1995**, 09, 23-65	1.1	1
34			1
33	Comparison between MDA and two edge detectors for SAR image analysis **1994**, 2315, 580		1
32	An adaptive probabilistic model for straight edge-extraction within a multilevel MRF framework		1
31			1
30	**2021**,		1
29	Observational Learning: Imitation Through an Adaptive Probabilistic Approach **2021**,		1
28	Detection of Abnormal Motion by Estimating Scene Flows of Point Clouds for Autonomous Driving **2021**,		1
27	Dynamic Scene Reconstruction for 3D Virtual Guidance. *Lecture Notes in Computer Science*, **2006**, 179-186	0.9	1
26	Convolutional Neural Networks for Detecting and Mapping Crowds in First Person Vision Applications. *Lecture Notes in Computer Science*, **2015**, 475-485	0.9	1
25	Presenting a Real-Time Activity-Based Bidirectional Framework for Improving Social Connectedness. *Lecture Notes in Computer Science*, **2017**, 356-367	0.9	1
24	Driver Behavior Assessment by On-board/Off-board Video Context Analysis. *Lecture Notes in Computer Science*, **2010**, 450-459	0.9	1
23	Continual Learning Of Predictive Models In Video Sequences Via Variational Autoencoders **2020**,		1
22	Distribution of Intelligence and Radio Link Configurability in Wireless Video-based Surveillance Networks **2001**, 129-142		1
21	An Emergent Self-Awareness Module for Physical Layer Security in Cognitive UAV Radios. *IEEE Transactions on Cognitive Communications and Networking*, **2022**, 1-1	6.6	1
20	E-COmate: What Your Non-consumption?. *Lecture Notes in Computer Science*, **2015**, 486-499	0.9	0
19	Statistical Pattern Spectrum for Binary Pattern Recognition. *Computational Imaging and Vision*, **1994**, 185-192		0
18	Self-awareness in intelligent vehicles: Feature based dynamic Bayesian models for abnormality detection. *Robotics and Autonomous Systems*, **2020**, 134, 103652	3.5	0

List of Publications

17	. *IEEE Internet of Things Journal*, **2021**, 8, 3224-3241	10.7	0
16	Active Inference Integrated with Imitation Learning for Autonomous Driving. *IEEE Access*, **2022**, 1-1	3.5	0
15	. *IEEE Signal Processing Magazine*, **2019**, 36, 148-147	9.4	
14	Learning Dynamic Jamming Models in Cognitive Radios **2019**, 1987-2023		
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