

Luis Enrique Sucar

List of Publications by Citations

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

145
papers

1,379
citations

19
h-index

32
g-index

158
ext. papers

1,678
ext. citations

2.3
avg, IF

4.75
L-index

#	Paper	IF	Citations
145	The segmented and annotated IAPR TC-12 benchmark. <i>Computer Vision and Image Understanding</i> , 2010 , 114, 419-428	4.3	139
144	Multi-label classification with Bayesian network-based chain classifiers. <i>Pattern Recognition Letters</i> , 2014 , 41, 14-22	4.7	74
143	Gesture therapy: an upper limb virtual reality-based motor rehabilitation platform. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 634-43	4.8	72
142	Volumetric Next-best-view Planning for 3D Object Reconstruction with Positioning Error. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 159	1.4	52
141	Bayesian Networks for Reliability Analysis of Complex Systems. <i>Lecture Notes in Computer Science</i> , 1998 , 195-206	0.9	50
140	Robot training for hand motor recovery in subacute stroke patients: A randomized controlled trial. <i>Journal of Hand Therapy</i> , 2016 , 29, 51-7; quiz 57	1.6	46
139	Real time intelligent sensor validation. <i>IEEE Transactions on Power Systems</i> , 2001 , 16, 770-775	7	46
138	Late fusion of heterogeneous methods for multimedia image retrieval 2008 ,		44
137	Inductive transfer for learning Bayesian networks. <i>Machine Learning</i> , 2010 , 79, 227-255	4	40
136	Neural reorganization accompanying upper limb motor rehabilitation from stroke with virtual reality-based gesture therapy. <i>Topics in Stroke Rehabilitation</i> , 2013 , 20, 197-209	2.6	38
135	Probabilistic Graphical Models. <i>Advances in Computer Vision and Pattern Recognition</i> , 2015 ,	1.1	33
134	Stress modelling and prediction in presence of scarce data. <i>Journal of Biomedical Informatics</i> , 2016 , 63, 344-356	10.2	31
133	A Probabilistic Model for Information and Sensor Validation. <i>Computer Journal</i> , 2006 , 49, 113-126	1.3	27
132	View/state planning for three-dimensional object reconstruction under uncertainty. <i>Autonomous Robots</i> , 2017 , 41, 89-109	3	26
131	A Bayesian approach for object classification based on clusters of SIFT local features. <i>Expert Systems With Applications</i> , 2012 , 39, 1679-1686	7.8	23
130	Temporal Bayesian Network of Events for Diagnosis and Prediction in Dynamic Domains. <i>Applied Intelligence</i> , 2005 , 23, 77-86	4.9	22
129	A naïve Bayes baseline for early gesture recognition. <i>Pattern Recognition Letters</i> , 2016 , 73, 91-99	4.7	21

128	Probabilistic temporal reasoning and its application to fossil power plant operation. <i>Expert Systems With Applications</i> , 1998 , 15, 317-324	7.8	20
127	Multimodal indexing based on semantic cohesion for image retrieval. <i>Information Retrieval</i> , 2012 , 15, 1-32	1.8	19
126	2008 ,		19
125	FPGA-based detection of SIFT interest keypoints. <i>Machine Vision and Applications</i> , 2013 , 24, 371-392	2.8	18
124	View planning for 3D object reconstruction 2009 ,		18
123	Clinical evaluation of a low-cost alternative for stroke rehabilitation 2009 ,		18
122	Nintendo Wii remote for computer simulated arm and wrist therapy in stroke survivors with upper extremity hemiparesis 2008 ,		18
121	Differential evolution strategies for large-scale energy resource management in smart grids 2017 ,		17
120	View planning for 3D object reconstruction with a mobile manipulator robot 2014 ,		17
119	Evolutionary Learning of Dynamic Naive Bayesian Classifiers. <i>Journal of Automated Reasoning</i> , 2010 , 45, 21-37	1	17
118	Learning Structure from Data and Its Application to Ozone Prediction. <i>Applied Intelligence</i> , 1997 , 7, 327-338	1.9	17
117	Supervised learning of the next-best-view for 3d object reconstruction. <i>Pattern Recognition Letters</i> , 2020 , 133, 224-231	4.7	16
116	On Fisher vector encoding of binary features for video face recognition. <i>Journal of Visual Communication and Image Representation</i> , 2018 , 51, 155-161	2.7	16
115	Probabilistic reasoning in high-level vision. <i>Image and Vision Computing</i> , 1994 , 12, 42-60	3.7	15
114	Hierarchical multilabel classification based on path evaluation. <i>International Journal of Approximate Reasoning</i> , 2016 , 68, 179-193	3.6	14
113	Efficiently detecting switches against non-stationary opponents. <i>Autonomous Agents and Multi-Agent Systems</i> , 2017 , 31, 767-789	2	14
112	Hierarchical Ray Tracing for Fast Volumetric Next-Best-View Planning 2013 ,		13
111	Tool-Wear Monitoring Based on Continuous Hidden Markov Models. <i>Lecture Notes in Computer Science</i> , 2005 , 880-890	0.9	13

110	Improving image retrieval by using spatial relations. <i>Multimedia Tools and Applications</i> , 2013 , 62, 479-505.	5.5	12
109	An energy-based model for region-labeling. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 787-803.	3.3	12
108	SEDRET: An intelligent system for the diagnosis and prediction of events in power plants. <i>Expert Systems With Applications</i> , 2000 , 18, 75-86	7.8	12
107	COMPARISON OF TWO TYPES OF EVENT BAYESIAN NETWORKS: A CASE STUDY. <i>Applied Artificial Intelligence</i> , 2007 , 21, 185-209	2.3	11
106	A framework for learning and planning against switching strategies in repeated games. <i>Connection Science</i> , 2014 , 26, 103-122	2.8	10
105	Markov Random Fields and Spatial Information to Improve Automatic Image Annotation 2007 , 879-892		10
104	A Semi-open Learning Environment for Virtual Laboratories. <i>Lecture Notes in Computer Science</i> , 2005 , 1185-1194	0.9	10
103	Learning temporal nodes Bayesian networks. <i>International Journal of Approximate Reasoning</i> , 2013 , 54, 956-977	3.6	9
102	Multidimensional hierarchical classification. <i>Expert Systems With Applications</i> , 2014 , 41, 7671-7677	7.8	8
101	Multi-class particle swarm model selection for automatic image annotation. <i>Expert Systems With Applications</i> , 2012 , 39, 11011-11021	7.8	8
100	Interactive structural learning of Bayesian networks. <i>Expert Systems With Applications</i> , 1998 , 15, 325-332.	7.8	8
99	Tree-based search of the next best view/state for three-dimensional object reconstruction. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 172988141875457	1.4	7
98	Discovering human immunodeficiency virus mutational pathways using temporal Bayesian networks. <i>Artificial Intelligence in Medicine</i> , 2013 , 57, 185-95	7.4	7
97	Inferring Missing Climate Data for Agricultural Planning Using Bayesian Networks. <i>Land</i> , 2018 , 7, 4	3.5	6
96	Qualification of arm gestures using hidden Markov models 2008 ,		6
95	Borrowing a Virtual Rehabilitation Tool for the Physical Activation and Cognitive Stimulation of Elders. <i>Lecture Notes in Computer Science</i> , 2013 , 95-102	0.9	6
94	Parallel Markov Decision Processes. <i>Studies in Fuzziness and Soft Computing</i> , 2007 , 295-309	0.7	6
93	Gesture Therapy: A Vision-Based System for Arm Rehabilitation after Stroke. <i>Communications in Computer and Information Science</i> , 2008 , 531-540	0.3	6

92	Next-Best-View Planning for 3D Object Reconstruction under Positioning Error. <i>Lecture Notes in Computer Science</i> , 2011 , 429-442	0.9	6
91	PSMS for Neural Networks on the IJCNN 2007 Agnostic vs Prior Knowledge Challenge. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		5
90	Continuous activity recognition with missing data		5
89	Towards a Generic Ontology for Video Surveillance. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 3-7	0.2	5
88	An exploration strategy for non-stationary opponents. <i>Autonomous Agents and Multi-Agent Systems</i> , 2017 , 31, 971-1002	2	4
87	A design framework for arcade-type games for the upper-limb rehabilitation 2015 ,		4
86	Simultaneous segmentation and recognition of hand gestures for human-robot interaction 2013 ,		4
85	Evaluating a Probabilistic Model for Affective Behavior in an Intelligent Tutoring System 2008 ,		4
84	Solving Hybrid Markov Decision Processes. <i>Lecture Notes in Computer Science</i> , 2006 , 227-236	0.9	4
83	Stress Modelling Using Transfer Learning in Presence of Scarce Data. <i>Lecture Notes in Computer Science</i> , 2015 , 224-236	0.9	4
82	Using Intermediate Models and Knowledge Learning to Improve Stress Prediction. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 140-151	0.2	4
81	Affective Modeling for an Intelligent Educational Environment. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 3-24	0.5	4
80	Efficient video face recognition by using Fisher Vector encoding of binary features 2016 ,		4
79	Foveation: an alternative method to simultaneously preserve privacy and information in face images. <i>Journal of Electronic Imaging</i> , 2017 , 26, 023015	0.7	3
78	Transfer learning for temporal nodes Bayesian networks. <i>Applied Intelligence</i> , 2015 , 43, 578-597	4.9	3
77	Planning Under Uncertainty Applications in Power Plants Using Factored Markov Decision Processes. <i>Energies</i> , 2020 , 13, 2302	3.1	3
76	Object Tracking Based on Covariance Descriptors and On-Line Naive Bayes Nearest Neighbor Classifier 2010 ,		3
75	A probabilistic model for case-based reasoning. <i>Lecture Notes in Computer Science</i> , 1997 , 623-632	0.9	3

74	Markovito: A Flexible and General Service Robot. <i>Studies in Computational Intelligence</i> , 2009 , 401-423	0.8	3
73	Improving Automatic Image Annotation Based on Word Co-occurrence. <i>Lecture Notes in Computer Science</i> , 2008 , 57-70	0.9	3
72	Improving Image Segmentation for Boosting Image Annotation with Irregular Pyramids. <i>Lecture Notes in Computer Science</i> , 2013 , 399-406	0.9	3
71	User Modelling for Patient Tailored Virtual Rehabilitation. <i>Lecture Notes in Computer Science</i> , 2015 , 259-278	0.9	3
70	Gesture therapy: A clinical evaluation 2009 ,		3
69	A Visual Grammar for Face Detection. <i>Lecture Notes in Computer Science</i> , 2010 , 493-502	0.9	3
68	An Object Recognition Model Based on Visual Grammars and Bayesian Networks. <i>Lecture Notes in Computer Science</i> , 2014 , 349-359	0.9	3
67	Knowledge-Based Hierarchical POMDPs for Task Planning. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 101, 1	2.9	3
66	A competitive and profitable multi-agent autonomous broker for energy markets. <i>Sustainable Cities and Society</i> , 2019 , 49, 101590	10.1	2
65	A local multiscale probabilistic graphical model for data validation and reconstruction, and its application in industry. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 70, 1-15	7.2	2
64	Response to "Letter to the editor: Robot training for hand motor recovery in subacute stroke patients: A randomized controlled trial". <i>Journal of Hand Therapy</i> , 2016 , 29, e13-e14	1.6	2
63	Document ranking refinement using a Markov random field model*. <i>Natural Language Engineering</i> , 2012 , 18, 155-185	1.1	2
62	2008 ,		2
61	Fuzzy intelligent system for the operation of fossil power plants. <i>Engineering Applications of Artificial Intelligence</i> , 2000 , 13, 431-439	7.2	2
60	Multimodal Markov Random Field for Image Reranking Based on Relevance Feedback 2013 , 2013, 1-16		2
59	Adaptation and Customization in Virtual Rehabilitation. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2016 , 141-163	0.3	2
58	An Efficient Strategy for Fast Object Search Considering the Robot's Perceptual Limitations. <i>Lecture Notes in Computer Science</i> , 2010 , 552-561	0.9	2
57	Hierarchical Markov Random Fields with Irregular Pyramids for Improving Image Annotation. <i>Lecture Notes in Computer Science</i> , 2012 , 521-530	0.9	2

56	Optimal motion planning and stopping test for 3-D object reconstruction. <i>Intelligent Service Robotics</i> , 2019 , 12, 103-123	2.6	2
55	Unobtrusive Stress Assessment Using Smartphones. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 20, 2313-2325	4.6	2
54	Probabilistic Model-Based Diagnosis. <i>Lecture Notes in Computer Science</i> , 2000 , 687-698	0.9	2
53	Bayesian Classifiers. <i>Advances in Computer Vision and Pattern Recognition</i> , 2015 , 41-62	1.1	2
52	Towards incorporating affective computing to virtual rehabilitation; surrogating attributed attention from posture for boosting therapy adaptation 2015 ,		1
51	Object Class Recognition Using SIFT and Bayesian Networks. <i>Lecture Notes in Computer Science</i> , 2010 , 56-66	0.9	1
50	Automatic Image Annotation Using Multiple Grid Segmentation. <i>Lecture Notes in Computer Science</i> , 2010 , 278-289	0.9	1
49	2009 ,		1
48	Shared learning experiences in a contest environment within a mobile robotics virtual laboratory. <i>Proceedings - Frontiers in Education Conference, FIE</i> , 2007 ,		1
47	A Knowledge and Probabilistic Based Task Planning Architecture for Service Robotics. <i>Lecture Notes in Computer Science</i> , 2019 , 646-657	0.9	1
46	Using a Prior Information for Fast Learning Against Non-stationary Opponents. <i>Lecture Notes in Computer Science</i> , 2014 , 536-547	0.9	1
45	Assessing Nitrogen Nutrition in Corn Crops with Airborne Multispectral Sensors. <i>Lecture Notes in Computer Science</i> , 2017 , 259-267	0.9	1
44	Evaluating an Affective Student Model for Intelligent Learning Environments. <i>Lecture Notes in Computer Science</i> , 2010 , 473-482	0.9	1
43	Learning Temporal Bayesian Networks for Power Plant Diagnosis. <i>Lecture Notes in Computer Science</i> , 2011 , 39-48	0.9	1
42	A Pathline-Based Background Subtraction Algorithm. <i>Lecture Notes in Computer Science</i> , 2017 , 179-188	0.9	1
41	Introduction to Bayesian Networks and Influence Diagrams 2012 , 9-32		1
40	Posture Based Detection of Attention in Human Computer Interaction. <i>Lecture Notes in Computer Science</i> , 2014 , 220-229	0.9	1
39	Multi-label and Multimodal Classifier for Affective States Recognition in Virtual Rehabilitation. <i>IEEE Transactions on Affective Computing</i> , 2021 , 1-1	5.7	1

38	Artificial datasets for hierarchical classification. <i>Expert Systems With Applications</i> , 2021 , 182, 115218	7.8	1
37	Dynamic and Temporal Bayesian Networks. <i>Advances in Computer Vision and Pattern Recognition</i> , 2015 , 161-177	1.1	1
36	Dynamic and Temporal Bayesian Networks. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 181-202	1.1	0
35	Assessing the Distinctiveness and Representativeness of Visual Vocabularies. <i>Lecture Notes in Computer Science</i> , 2015 , 331-338	0.9	0
34	Inter-task Similarity Measure for Heterogeneous Tasks. <i>Lecture Notes in Computer Science</i> , 2022 , 40-52	0.9	0
33	Sensor Abstracted Extremity Representation for Automatic Fugl-Meyer Assessment. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 152-163	0.3	0
32	Automation of motor dexterity assessment. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 521-526	1.3	
31	Treatment of Disease: The Role of Knowledge Representation for Treatment Selection. <i>Lecture Notes in Computer Science</i> , 2015 , 235-241	0.9	
30	An Efficient Shape Feature Extraction, Description and Matching Method Using GPU. <i>Lecture Notes in Computer Science</i> , 2015 , 206-221	0.9	
29	Task Coordination for Service Robots Based on Multiple Markov Decision Processes	15-32	
28	Adaptation and Customization in Virtual Rehabilitation	826-849	
27	Transfer Learning for Bayesian Networks. <i>Lecture Notes in Computer Science</i> , 2008 , 93-102	0.9	
26	Knowledge transfer for causal discovery. <i>International Journal of Approximate Reasoning</i> , 2022 , 143, 1-25	3.6	
25	Causal Based Action Selection Policy for Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 213-227	0.9	
24	A Probabilistic Exemplar-Based Model for Case-Based Reasoning. <i>Lecture Notes in Computer Science</i> , 2000 , 40-51	0.9	
23	EDAS (Event-Disturbance Analysis System for Fossil Power Plants Operation. <i>Lecture Notes in Computer Science</i> , 2000 , 706-717	0.9	
22	A Fast and Robust Deep Learning Approach for Hand Object Grasping Confirmation. <i>Lecture Notes in Computer Science</i> , 2019 , 601-612	0.9	
21	Bayesian Classifiers. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 43-69	1.1	

20	Markov Decision Processes. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 229-248	1.1
19	Decision Graphs. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 205-228	1.1
18	Graphical Causal Models. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 287-305	1.1
17	Markov Random Fields. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 93-110	1.1
16	Partially Observable Markov Decision Processes. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 249-266	1.1
15	Deep Learning and Graphical Models. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 327-346	1.1
14	Bayesian Networks: Learning. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 153-179	1.1
13	Hidden Markov Models. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 71-91	1.1
12	Causal Discovery. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 307-325	1.1
11	Relational Probabilistic Graphical Models. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 269-286	1.1
10	Bayesian Networks: Representation and Inference. <i>Advances in Computer Vision and Pattern Recognition</i> , 2021 , 111-151	1.1
9	Bayesian Networks: Representation and Inference. <i>Advances in Computer Vision and Pattern Recognition</i> , 2015 , 101-136	1.1
8	Markov Random Fields. <i>Advances in Computer Vision and Pattern Recognition</i> , 2015 , 83-99	1.1
7	Pilot Evaluation of a Collaborative Game for Motor Tele-Rehabilitation and Cognitive Stimulation of the Elderly. <i>Lecture Notes in Computer Science</i> , 2015 , 42-48	0.9
6	A Two-Directional Two-Dimensional PCA Correlation Filter in the Phase only Spectrum for Face Recognition in Video. <i>Lecture Notes in Computer Science</i> , 2017 , 73-87	0.9
5	Towards a General Vision System Based on Symbol-Relation Grammars and Bayesian Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 291-296	0.9
4	Unsupervised Learning of Visual Object Recognition Models. <i>Lecture Notes in Computer Science</i> , 2012 , 511-520	0.9
3	Task Coordination for Service Robots Based on Multiple Markov Decision Processes 2012 , 343-360	

- 2 A Distributed Probabilistic Model for Fault Diagnosis. *Lecture Notes in Computer Science*, **2018**, 42-53 0.9
- 1 Learning a causal structure: a Bayesian random graph approach. *Neural Computing and Applications*, 1 4.8