

# Lale Akarun

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

2,698  
citations

331259

21  
h-index

223531

46  
g-index

121  
all docs

121  
docs citations

121  
times ranked

1931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bosphorus Database for 3D Face Analysis. Lecture Notes in Computer Science, 2008, , 47-56.	1.0	516
2	The Multiscenario Multienvironment BioSecure Multimodal Database (BMDB). IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1097-1111.	9.7	176
3	Hand Pose Estimation and Hand Shape Classification Using Multi-layered Randomized Decision Forests. Lecture Notes in Computer Science, 2012, , 852-863.	1.0	152
4	Real time hand pose estimation using depth sensors. , 2011, , .		135
5	A fuzzy algorithm for color quantization of images. Pattern Recognition, 2002, 35, 1785-1791.	5.1	116
6	A selective attention-based method for visual pattern recognition with application to handwritten digit recognition and face recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 420-425.	9.7	107
7	Surveillance Wireless Sensor Networks: Deployment Quality Analysis. IEEE Network, 2007, 21, 48-53.	4.9	85
8	3D shape-based face representation and feature extraction for face recognition. Image and Vision Computing, 2006, 24, 857-869.	2.7	79
9	Regional Registration for Expression Resistant 3-D Face Recognition. IEEE Transactions on Information Forensics and Security, 2010, 5, 425-440.	4.5	76
10	A 3D Face Recognition System for Expression and Occlusion Invariance. , 2008, , .		67
11	Representation Plurality and Fusion for 3-D Face Recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 155-173.	5.5	61
12	3D Facial Landmarking under Expression, Pose, and Occlusion Variations. , 2008, , .		56
13	3-D Face Recognition Under Occlusion Using Masked Projection. IEEE Transactions on Information Forensics and Security, 2013, 8, 789-802.	4.5	54
14	SignTutor: An Interactive System for Sign Language Tutoring. IEEE MultiMedia, 2009, 16, 81-93.	1.5	49
15	Adaptive methods for dithering color images. IEEE Transactions on Image Processing, 1997, 6, 950-955.	6.0	47
16	Fuzzy algorithms for combined quantization and dithering. IEEE Transactions on Image Processing, 2001, 10, 923-931.	6.0	47
17	A multi-class classification strategy for Fisher scores: Application to signer independent sign language recognition. Pattern Recognition, 2010, 43, 1776-1788.	5.1	46
18	Rank-Based Decision Fusion for 3D Shape-Based Face Recognition. Lecture Notes in Computer Science, 2005, , 1019-1028.	1.0	43

#	ARTICLE	IF	CITATIONS
19	A belief-based sequential fusion approach for fusing manual signs and non-manual signals. Pattern Recognition, 2009, 42, 812-822.	5.1	40
20	Hierarchically constrained 3D hand pose estimation using regression forests from single frame depth data. Pattern Recognition Letters, 2014, 50, 91-100.	2.6	38
21	3D Face Recognition Benchmarks on the Bosphorus Database with Focus on Facial Expressions. Lecture Notes in Computer Science, 2008, , 57-66.	1.0	36
22	A Database of Non-Manual Signs in Turkish Sign Language. , 2007, , .		26
23	Learning the best subset of local features for face recognition. Pattern Recognition, 2007, 40, 1520-1532.	5.1	24
24	STARS: Sign tracking and recognition system using input-output HMMs. Pattern Recognition Letters, 2009, 30, 1086-1095.	2.6	24
25	Robust 3D face recognition in the presence of realistic occlusions. , 2012, , .		22
26	Modeling annotator behaviors for crowd labeling. Neurocomputing, 2015, 160, 141-156.	3.5	22
27	Facial feature tracking and expression recognition for sign language. , 2008, , .		21
28	3D Facial Feature Localization for Registration. Lecture Notes in Computer Science, 2006, , 338-345.	1.0	21
29	Robust facial landmarking for registration. Annales Des Telecommunications/Annals of Telecommunications, 2007, 62, 83-108.	1.6	19
30	DTW Based Clustering to Improve Hand Gesture Recognition. Lecture Notes in Computer Science, 2011, , 72-81.	1.0	18
31	A Multimodal 3D Healthcare Communication System. , 2007, , .		16
32	Surveillance with wireless sensor networks in obstruction: Breach paths as watershed contours. Computer Networks, 2010, 54, 428-441.	3.2	16
33	Nasal Region-Based 3D Face Recognition under Pose and Expression Variations. Lecture Notes in Computer Science, 2009, , 309-318.	1.0	16
34	Biometric Identification through Hand Vein Patterns. , 2010, , .		15
35	Sign Language Recognition for Assisting the Deaf in Hospitals. Lecture Notes in Computer Science, 2016, , 89-101.	1.0	14
36	Teaching Interactive Media Design. International Journal of Technology and Design Education, 2002, 12, 161-171.	1.7	13

#	ARTICLE	IF	CITATIONS
37	Speech and sliding text aided sign retrieval from hearing impaired sign news videos. Journal on Multimodal User Interfaces, 2008, 2, 117-131.	2.0	13
38	Gesture Recognition Using Template Based Random Forest Classifiers. Lecture Notes in Computer Science, 2015, , 579-594.	1.0	13
39	Color quantization with genetic algorithms. Signal Processing: Image Communication, 1998, 12, 49-57.	1.8	12
40	An audio-driven dancing avatar. Journal on Multimodal User Interfaces, 2008, 2, 93-103.	2.0	12
41	Biometric identification through hand vein patterns. , 2010, , .		12
42	Computer aided detection of spina bifida using nearest neighbor classification with curvature scale space features of fetal skulls extracted from ultrasound images. Knowledge-Based Systems, 2015, 85, 80-95.	4.0	12
43	Recognizing Two Handed Gestures with Generative, Discriminative and Ensemble Methods Via Fisher Kernels. Lecture Notes in Computer Science, 2006, , 159-166.	1.0	12
44	3D Face Recognition: Technology and Applications. Advances in Pattern Recognition, 2009, , 217-246.	0.8	12
45	Automatic personality prediction from audiovisual data using random forest regression. , 2016, , .		11
46	Isolated sign language recognition using Improved Dense Trajectories. , 2016, , .		11
47	Temporal Accumulative Features for Sign Language Recognition. , 2019, , .		11
48	Multi-modal fall detection within the WeCare framework. , 2010, , .		10
49	Multi-domain and multi-task prediction of extraversion and leadership from meeting videos. Eurasip Journal on Image and Video Processing, 2017, 2017, .	1.7	10
50	Component-based registration with curvature descriptors for expression insensitive 3d face recognition. , 2008, , .		9
51	Automatic sign segmentation from continuous signing via multiple sequence alignment. , 2009, , .		9
52	Automatic fingersign-to-speech translation system. Journal on Multimodal User Interfaces, 2011, 4, 61-79.	2.0	9
53	Facial Landmark Localization in Depth Images Using Supervised Ridge Descent. , 2015, , .		9
54	Score-Level Multi Cue Fusion for Sign Language Recognition. Lecture Notes in Computer Science, 2020, , 294-309.	1.0	9

#	ARTICLE	IF	CITATIONS
55	Fuzzy error diffusion. IEEE Transactions on Image Processing, 2000, 9, 683-690.	6.0	8
56	Automatic recognition fingerspelling gestures in multiple languages for a communication interface for the disabled. Pattern Recognition and Image Analysis, 2012, 22, 527-536.	0.6	8
57	Adaptive decimated median filtering. Pattern Recognition Letters, 1992, 13, 57-62.	2.6	7
58	Decimated rank-order filtering. IEEE Transactions on Signal Processing, 1994, 42, 835-845.	3.2	7
59	Speaker-independent 3D face synthesis driven by speech and text. Signal Processing, 2006, 86, 2932-2951.	2.1	7
60	2D/3D facial feature extraction. , 2006, 6064, 441.		7
61	3D Face Recognition. , 2009, , 263-295.		7
62	Coverage in Sensor Networks When Obstacles Are Present. , 2006, , .		6
63	A robust multimodal fall detection method for ambient assisted living applications. , 2010, , .		6
64	Recognizing Non-Manual Signs in Turkish Sign Language. , 2019, , .		6
65	Modified quantisation algorithm for dithering of colour images. Electronics Letters, 1996, 32, 1185.	0.5	5
66	Clustering poses of motion capture data using limb centroids. , 2008, , .		5
67	Facial feature tracking and expression recognition for sign language. , 2009, , .		5
68	Regional registration and curvature descriptors for expression resistant 3D face recognition. , 2009, , .		5
69	Detection of Realistic Facial Occlusions for Robust 3D Face Recognition. , 2014, , .		5
70	A Dempster-Shafer Theory Based Combination of Classifiers for Hand Gesture Recognition. Communications in Computer and Information Science, 2008, , 137-150.	0.4	5
71	Sequential Belief-Based Fusion of Manual and Non-manual Information for Recognizing Isolated Signs. Lecture Notes in Computer Science, 2009, , 134-144.	1.0	5
72	Mathematics and Design Education. Design Issues, 2001, 17, 26-34.	0.2	4

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73	Robust 2D/3D Face Landmarking. , 2007, , .		4
74	Multi-class classification strategies for Fisher scores of gesture and sign sequences. , 2008, , .		4
75	Facial landmark localization in depth images using Supervised Descent Method. , 2015, , .		4
76	Rectangle blanket problem: Binary integer linear programming formulation and solution algorithms. European Journal of Operational Research, 2019, 277, 62-83.	3.5	4
77	Multi-view Reconstruction of 3D Human Pose with Procrustes Analysis. , 2019, , .		4
78	Hand Gesture Analysis. , 2011, , 125-149.		4
79	Coupling Fall Detection and Tracking in Omnidirectional Cameras. Lecture Notes in Computer Science, 2014, , 73-85.	1.0	4
80	Image and Video for Hearing Impaired People. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-14.	1.7	3
81	Sign Language Processing and Interactive Tools for Sign Language Education. , 2007, , .		3
82	Multiple person tracking using omnidirectional cameras. , 2014, , .		3
83	Isolated sign language recognition with fast hand descriptors. , 2018, , .		3
84	Affordable person detection in omnidirectional cameras using radial integral channel features. Machine Vision and Applications, 2019, 30, 645-655.	1.7	3
85	Selection and Extraction of Patch Descriptors for 3D Face Recognition. Lecture Notes in Computer Science, 2005, , 718-727.	1.0	2
86	Alternative Average Face Models for 3D Face Registration. , 2007, , .		2
87	Generating motion graphs from clusters of individual poses. , 2009, , .		2
88	Alignment based extraction of isolated signs from sign language videos. , 2009, , .		2
89	Multimodal Human Computer Interaction with MIDAS Intelligent Infokiosk. , 2010, , .		2
90	Selection and combination of local Gabor classifiers for robust face verification. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
91	3D hand pose estimation and classification using depth sensors. , 2012, , .		2
92	Analysis of Representation and Feature Extraction Schemes for 3D Face Recognition. , 2007, , .		1
93	A particle filter based algorithm for robust tracking of hands and face under occlusion. , 2008, , .		1
94	Part-based registration for expression resistant 3D face recognition. , 2008, , .		1
95	Combined color and texture tracking for video post-editing. , 2008, , .		1
96	Occlusion-robust 3D face recognition using restoration and local classifiers. , 2011, , .		1
97	Real-time pose tracking based on a 3D skeletal model using multiple cameras. , 2011, , .		1
98	Human action recognition in videos using keypoint tracking. , 2011, , .		1
99	Multi-omnidirectional cameras for ambient intelligence. , 2012, , .		1
100	SVD-based polyphonic music transcription. , 2012, , .		1
101	Probabilistic interpolative decomposition. , 2012, , .		1
102	Depth image based 3D hand pose estimation framework. , 2012, , .		1
103	Randomized Matrix Decompositions and Exemplar Selection in Large Dictionaries for Polyphonic Piano Transcription. Journal of New Music Research, 2014, 43, 255-265.	0.6	1
104	Dynamic Time Warping Based Sign Retrieval. , 2019, , .		1
105	Identifying Image Related Sentences in News Articles. , 2019, , .		1
106	Sign Language Motion Tracking and Generating 3D Motion Pieces Using 2D Features. , 2007, , .		0
107	Color vision in humans and computers. , 2008, , .		0
108	Gamma Markov Random fields for audio source modelling. , 2009, , .		0

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109	Expression, pose and occlusion resistant 3D facial landmarking. , 2009, , .		0
110	Facial expression and head gesture recognition using temporal self-similarity and bag of words of facial landmarks. , 2010, , .		0
111	Face recognition using curvature Gabor features. , 2012, , .		0
112	ID for data with multiple clusters. , 2013, , .		0
113	Biomedical image time series registration with particle filtering. , 2013, , .		0
114	Physiotherapy guidance by motion analysis based on Hidden Markov Model. , 2013, , .		0
115	Fall detection using multi-omnidirectional cameras. , 2013, , .		0
116	Domain adaptation for gesture recognition using hidden Markov models. , 2014, , .		0
117	Masked projection for 3D face recognition under occlusion. , 2014, , .		0
118	Conditional Information Gain Networks. , 2018, , .		0
119	Cooperative Sign Language Tutoring: A Multiagent Approach. Lecture Notes in Computer Science, 2009, , 213-228.	1.0	0
120	Robust 3D Face Identification in the Presence of Occlusions. Advances in Computational Intelligence and Robotics Book Series, 0, , 124-146.	0.4	0