

# Vishal M Patel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4904092/publications.pdf>

Version: 2024-02-01

106  
papers

9,704  
citations

182225

30  
h-index

156644

58  
g-index

106  
all docs

106  
docs citations

106  
times ranked

7763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated Generalized Face Presentation Attack Detection. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 103-116.	7.2	7
2	KiU-Net: Overcomplete Convolutional Architectures for Biomedical Image and Volumetric Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 965-976.	5.4	94
3	Hyperspectral Pansharpening Based on Improved Deep Image Prior and Residual Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	27
4	Defending Against Multiple and Unforeseen Adversarial Videos. IEEE Transactions on Image Processing, 2022, 31, 962-973.	6.0	6
5	Open-Set Adversarial Defense with Clean-Adversarial Mutual Learning. International Journal of Computer Vision, 2022, 130, 1070-1087.	10.9	8
6	CNN-Based Restoration of a Single Face Image Degraded by Atmospheric Turbulence. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2022, 4, 222-233.	3.8	8
7	Adversarially Robust One-class Novelty Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-12.	9.7	4
8	A Joint Representation Learning and Feature Modeling Approach for One-class Recognition. , 2021, , .		1
9	Over-and-Under Complete Convolutional RNN for MRI Reconstruction. Lecture Notes in Computer Science, 2021, 12906, 13-23.	1.0	19
10	Medical Transformer: Gated Axial-Attention for Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 36-46.	1.0	356
11	Semi-Supervised Image Deraining Using Gaussian Processes. IEEE Transactions on Image Processing, 2021, 30, 6570-6582.	6.0	10
12	Thermal-to-Visible Face Synthesis and Recognition. Advances in Computer Vision and Pattern Recognition, 2021, , 233-246.	0.9	0
13	Exploring Overcomplete Representations for Single Image Deraining Using CNNs. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 229-239.	7.3	18
14	Multi-Scale Thermal to Visible Face Verification via Attribute Guided Synthesis. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 266-280.	3.8	24
15	Simultaneous Face Hallucination and Translation for Thermal to Visible Face Verification using Axial-GAN. , 2021, , .		9
16	Confidence Guided Network For Atmospheric Turbulence Mitigation. , 2021, , .		11
17	Anatomic and Molecular MR Image Synthesis Using Confidence Guided CNNs. IEEE Transactions on Medical Imaging, 2021, 40, 2832-2844.	5.4	14
18	Multimodal Face Synthesis From Visual Attributes. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 427-439.	3.8	8

#	ARTICLE	IF	CITATIONS
19	Overcomplete Deep Subspace Clustering Networks. , 2021, , .		7
20	Federated Test-Time Adaptive Face Presentation Attack Detection with Dual-Phase Privacy Preservation. , 2021, , .		5
21	Heterogeneous Face Frontalization via Domain Agnostic Learning. , 2021, , .		8
22	Image De-Raining Using a Conditional Generative Adversarial Network. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3943-3956.	5.6	517
23	HA-CCN: Hierarchical Attention-Based Crowd Counting Network. IEEE Transactions on Image Processing, 2020, 29, 323-335.	6.0	149
24	Bone shadow segmentation from ultrasound data for orthopedic surgery using GAN. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1477-1485.	1.7	14
25	Syn2Real Transfer Learning for Image Deraining Using Gaussian Processes. , 2020, , .		112
26	Deep Multimodal Sparse Representation-Based Classification. , 2020, , .		0
27	Quickest Intruder Detection For Multiple User Active Authentication. , 2020, , .		6
28	Generative-Discriminative Feature Representations for Open-Set Recognition. , 2020, , .		94
29	Deblurring Face Images Using Uncertainty Guided Multi-Stream Semantic Networks. IEEE Transactions on Image Processing, 2020, 29, 6251-6263.	6.0	46
30	Learning to Segment Brain Anatomy From 2D Ultrasound With Less Data. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1221-1234.	7.3	17
31	Confidence Measure Guided Single Image De-Raining. IEEE Transactions on Image Processing, 2020, 29, 4544-4555.	6.0	49
32	Facial Synthesis From Visual Attributes via Sketch Using Multiscale Generators. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2020, 2, 55-67.	3.8	17
33	Multiple Class Novelty Detection Under Data Distribution Shift. Lecture Notes in Computer Science, 2020, , 432-449.	1.0	11
34	Learning to Count in the Crowd from Limited Labeled Data. Lecture Notes in Computer Science, 2020, , 212-229.	1.0	35
35	Improving Amide Proton Transfer-Weighted MRI Reconstruction Using T2-Weighted Images. Lecture Notes in Computer Science, 2020, 12262, 3-12.	1.0	4
36	Lesion Mask-Based Simultaneous Synthesis of Anatomic and Molecular MR Images Using a GAN. Lecture Notes in Computer Science, 2020, 12262, 104-113.	1.0	4

#	ARTICLE	IF	CITATIONS
37	KiU-Net: Towards Accurate Segmentation of Biomedical Images Using Over-Complete Representations. Lecture Notes in Computer Science, 2020, , 363-373.	1.0	77
38	Anomaly Detection-Based Unknown Face Presentation Attack Detection. , 2020, , .		17
39	Open-Set Adversarial Defense. Lecture Notes in Computer Science, 2020, , 682-698.	1.0	13
40	Quickest Multiple User Active Authentication. Advanced Sciences and Technologies for Security Applications, 2020, , 179-196.	0.4	1
41	Utilizing Patch-Level Category Activation Patterns for Multiple Class Novelty Detection. Lecture Notes in Computer Science, 2020, , 421-437.	1.0	6
42	Active Authentication using an Autoencoder regularized CNN-based One-Class Classifier. , 2019, , .		16
43	Learning Deep Features for One-Class Classification. IEEE Transactions on Image Processing, 2019, 28, 5450-5463.	6.0	214
44	Two-Dimensional Beamforming Automotive Radar with Orthogonal Linear Arrays. , 2019, , .		2
45	Disentangled Variational Representation for Heterogeneous Face Recognition. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9005-9012.	3.6	70
46	Joint Transmission Map Estimation and Dehazing using Deep Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	5.6	29
47	Exploring Body Texture From mmW Images for Person Recognition. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2019, 1, 139-151.	3.8	3
48	Deep Sparse Representation-Based Classification. IEEE Signal Processing Letters, 2019, 26, 948-952.	2.1	30
49	Synthesis of High-Quality Visible Faces from Polarimetric Thermal Faces using Generative Adversarial Networks. International Journal of Computer Vision, 2019, 127, 845-862.	10.9	59
50	Automatic segmentation of bone surfaces from ultrasound using a filter-layer-guided CNN. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 775-783.	1.7	39
51	Polarimetric Thermal to Visible Face Verification via Self-Attention Guided Synthesis. , 2019, , .		25
52	Uncertainty Guided Multi-Scale Residual Learning-Using a Cycle Spinning CNN for Single Image De-Raining. , 2019, , .		169
53	C2AE: Class Conditioned Auto-Encoder for Open-Set Recognition. , 2019, , .		183
54	Deep Transfer Learning for Multiple Class Novelty Detection. , 2019, , .		59

#	ARTICLE	IF	CITATIONS
55	Improving the Performance of Unimodal Dynamic Hand-Gesture Recognition With Multimodal Training. , 2019, , .		109
56	One-Class Convolutional Neural Network. IEEE Signal Processing Letters, 2019, 26, 277-281.	2.1	106
57	Multidimensional Sparse Fourier Transform Based on the Fourier Projection-Slice Theorem. IEEE Transactions on Signal Processing, 2019, 67, 54-69.	3.2	27
58	Face-Based Multiple User Active Authentication on Mobile Devices. IEEE Transactions on Information Forensics and Security, 2019, 14, 1240-1250.	4.5	38
59	HyperFace: A Deep Multi-Task Learning Framework for Face Detection, Landmark Localization, Pose Estimation, and Gender Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 121-135.	9.7	744
60	Active Authentication on Mobile Devices. Advances in Computer Vision and Pattern Recognition, 2019, , 243-257.	0.9	0
61	Convolutional Sparse and Low-Rank Coding-Based Image Decomposition. IEEE Transactions on Image Processing, 2018, 27, 2121-2133.	6.0	38
62	Efficient and Low Latency Detection of Intruders in Mobile Active Authentication. IEEE Transactions on Information Forensics and Security, 2018, 13, 1392-1405.	4.5	30
63	Deep Learning for Understanding Faces: Machines May Be Just as Good, or Better, than Humans. IEEE Signal Processing Magazine, 2018, 35, 66-83.	4.6	148
64	Adversarial domain adaptive subspace clustering. , 2018, , .		7
65	Multimodal sparse and low-rank subspace clustering. Information Fusion, 2018, 39, 168-177.	11.7	74
66	Unconstrained Still/Video-Based Face Verification with Deep Convolutional Neural Networks. International Journal of Computer Vision, 2018, 126, 272-291.	10.9	38
67	A survey of recent advances in CNN-based single image crowd counting and density estimation. Pattern Recognition Letters, 2018, 107, 3-16.	2.6	413
68	Dual-Minimax Probability Machines for One-class Mobile Active Authentication. , 2018, , .		11
69	Multi-scale Single Image Dehazing Using Perceptual Pyramid Deep Network. , 2018, , .		106
70	Density-Aware Single Image De-raining Using a Multi-stream Dense Network. , 2018, , .		519
71	In2I: Unsupervised Multi-Image-to-Image Translation Using Generative Adversarial Networks. , 2018, , .		18
72	Densely Connected Pyramid Dehazing Network. , 2018, , .		642

#	ARTICLE	IF	CITATIONS
73	Fps-Sft: A Multi-Dimensional Sparse Fourier Transform Based on the Fourier Projection-Slice Theorem. , 2018, , .		1
74	Polarimetric Thermal to Visible Face Verification via Attribute Preserved Synthesis. , 2018, , .		26
75	Deep Multimodal Subspace Clustering Networks. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1601-1614.	7.3	107
76	Automatic real-time CNN-based neonatal brain ventricles segmentation. , 2018, , .		13
77	Person Recognition beyond the Visible Spectrum: Combining Body Shape and Texture from mmW Images. , 2018, , .		1
78	Generating high quality visible images from SAR images using CNNs. , 2018, , .		43
79	Exploring Body Shape From mmW Images for Person Recognition. IEEE Transactions on Information Forensics and Security, 2017, 12, 2078-2089.	4.5	19
80	MIMO-RSFT radar: A reduced complexity MIMO radar based on the Sparse Fourier Transform. , 2017, , .		3
81	Convolutional Sparse and Low-Rank Coding-Based Rain Streak Removal. , 2017, , .		91
82	SAR Image Despeckling Using a Convolutional Neural Network. IEEE Signal Processing Letters, 2017, 24, 1763-1767.	2.1	270
83	CNN-Based cascaded multi-task learning of high-level prior and density estimation for crowd counting. , 2017, , .		321
84	Extracting Fourier descriptors from compressive measurements. , 2017, , .		3
85	Towards Multiple User Active Authentication in Mobile Devices. , 2017, , .		10
86	Large Margin Multi-Modal Triplet Metric Learning. , 2017, , .		6
87	A practical high-dimensional Sparse Fourier Transform. , 2017, , .		1
88	Low-Rank and Joint Sparse Representations for Multi-Modal Recognition. IEEE Transactions on Image Processing, 2017, 26, 4741-4752.	6.0	14
89	Sparse Representation-Based Open Set Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1690-1696.	9.7	124
90	Generative adversarial network-based synthesis of visible faces from polarimetric thermal faces. , 2017, , .		43

#	ARTICLE	IF	CITATIONS
91	Hierarchical Multimodal Metric Learning for Multimodal Classification. , 2017, , .		18
92	Generating High-Quality Crowd Density Maps Using Contextual Pyramid CNNs. , 2017, , .		433
93	Extreme Value Analysis for Mobile Active User Authentication. , 2017, , .		10
94	Continuous User Authentication on Mobile Devices: Recent progress and remaining challenges. IEEE Signal Processing Magazine, 2016, 33, 49-61.	4.6	245
95	Active user authentication for smartphones: A challenge data set and benchmark results. , 2016, , .		71
96	RSFT: A realistic high dimensional sparse fourier transform and its application in radar signal processing. , 2016, , .		2
97	Spaceborne SAR antenna size reduction enabled by compressive sampling. , 2016, , .		3
98	Frontal to profile face verification in the wild. , 2016, , .		410
99	Unconstrained face verification using deep CNN features. , 2016, , .		180
100	Latent Space Sparse and Low-Rank Subspace Clustering. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 691-701.	7.3	77
101	Visual Domain Adaptation: A survey of recent advances. IEEE Signal Processing Magazine, 2015, 32, 53-69.	4.6	636
102	Dictionary-Based Face and Person Recognition From Unconstrained Video. IEEE Access, 2015, 3, 1783-1798.	2.6	22
103	Kernel sparse subspace clustering. , 2014, , .		144
104	Joint Sparse Representation for Robust Multimodal Biometrics Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 113-126.	9.7	288
105	Multiple Kernel Learning for Sparse Representation-Based Classification. IEEE Transactions on Image Processing, 2014, 23, 3013-3024.	6.0	132
106	Design of Non-Linear Kernel Dictionaries for Object Recognition. IEEE Transactions on Image Processing, 2013, 22, 5123-5135.	6.0	138