Josef Kittler

List of Publications by Year
in descending order

116 papers	4,595 citations	201674 27 h-index	144013 57 g-index
116 all docs	116 docs citations	116 times ranked	3249 citing authors

#	Article	IF	Citations
1	Deep Metric Learning on the SPD Manifold for Image Set Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2024, 34, 663-680.	8.3	3
2	RAgE: Robust Age Estimation Through Subject Anchoring With Consistency Regularisation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2024, 46, 1603-1617.	13.9	1
3	A Theoretical Insight Into the Effect of Loss Function for Deep Semantic-Preserving Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 119-133.	11.3	4
4	Hybrid Riemannian Graph-Embedding Metric Learning for Image Set Classification. IEEE Transactions on Big Data, 2023, 9, 75-92.	6.1	7
5	Distribution Cognisant Loss for Cross-Database Facial Age Estimation With Sensitivity Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1869-1887.	13.9	17
6	Multiple Riemannian Manifold-Valued Descriptors Based Image Set Classification With Multi-Kernel Metric Learning. IEEE Transactions on Big Data, 2022, 8, 753-769.	6.1	18
7	Robust Visual Object Tracking Via Adaptive Attribute-Aware Discriminative Correlation Filters. IEEE Transactions on Multimedia, 2022, 24, 301-312.	7.2	25
8	Relaxed Block-Diagonal Dictionary Pair Learning With Locality Constraint for Image Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3645-3659.	11.3	14
9	A Novel Ground Metric for Optimal Transport-Based Chronological Age Estimation. IEEE Transactions on Cybernetics, 2022, 52, 9986-9999.	9.5	11
10	SymNet: A Simple Symmetric Positive Definite Manifold Deep Learning Method for Image Set Classification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2208-2222.	11.3	23
11	Graph2Net: Perceptually-Enriched Graph Learning for Skeleton-Based Action Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2120-2132.	8.3	20
12	Developing a generic framework for anomaly detection. Pattern Recognition, 2022, 124, 108500.	8.1	9
13	CPInformer for Efficient and Robust Compound-Protein Interaction Prediction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, PP, 1-1.	3.0	3
14	Two-Stage Supervised Discrete Hashing for Cross-Modal Retrieval. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7014-7026.	9.3	6
15	Multi-target regression via non-linear output structure learning. Neurocomputing, 2022, 492, 572-580.	5.9	7
16	Face spoofing detection ensemble via multistage optimisation and pruning. Pattern Recognition Letters, 2022, 158, 1-8.	4.2	9
17	Complementary Discriminative Correlation Filters Based on Collaborative Representation for Visual Object Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 557-568.	8.3	31
18	Robust One-Class Kernel Spectral Regression. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 999-1013.	11.3	5

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19	Graph Embedding Multi-Kernel Metric Learning for Image Set Classification With Grassmannian Manifold-Valued Features. IEEE Transactions on Multimedia, 2021, 23, 228-242.	7.2	30
20	Client-specific anomaly detection for face presentation attack detection. Pattern Recognition, 2021, 112, 107696.	8.1	26
21	Visual Semantic Information Pursuit: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1404-1422.	13.9	16
22	A Flatter Loss for Bias Mitigation in Cross-dataset Facial Age Estimation. , 2021, , .		6
23	Deep Convolutional Neural Network Ensembles Using ECOC. IEEE Access, 2021, 9, 86083-86095.	4.2	5
24	Learning Alternating Deep-Layer Cascaded Representation. IEEE Signal Processing Letters, 2021, 28, 1520-1524.	3.6	3
25	Adaptive Context-Aware Discriminative Correlation Filters for Robust Visual Object Tracking. , 2021, , .		1
26	Advanced skeleton-based action recognition via spatial–temporal rotation descriptors. Pattern Analysis and Applications, 2021, 24, 1335-1346.	4.6	0
27	Adaptive Channel Selection for Robust Visual Object Tracking with Discriminative Correlation Filters. International Journal of Computer Vision, 2021, 129, 1359-1375.	15.6	52
28	STRNet: Triple-stream Spatiotemporal Relation Network for Action Recognition. International Journal of Automation and Computing, 2021, 18, 718-730.	4.5	1
29	Effective method for fusing infrared and visible images. Journal of Electronic Imaging, 2021, 30, .	0.9	4
30	Correlation tracking with implicitly extending search region. Visual Computer, 2021, 37, 1029-1043.	3.5	2
31	Learning Low-Rank and Sparse Discriminative Correlation Filters for Coarse-to-Fine Visual Object Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3727-3739.	8.3	35
32	Learning a representation with the block-diagonal structure for pattern classification. Pattern Analysis and Applications, 2020, 23, 1381-1390.	4.6	3
33	Rectified Wing Loss for Efficient and Robust Facial Landmark Localisation with Convolutional Neural Networks. International Journal of Computer Vision, 2020, 128, 2126-2145.	15.6	22
34	An accelerated correlation filter tracker. Pattern Recognition, 2020, 102, 107172.	8.1	15
35	Exploiting Deep Learning in Limited-Fronthaul Cell-Free Massive MIMO Uplink. IEEE Journal on Selected Areas in Communications, 2020, 38, 1678-1697.	14.0	52
36	Dual Encoder-Decoder Based Generative Adversarial Networks for Disentangled Facial Representation Learning. IEEE Access, 2020, 8, 130159-130171.	4.2	9

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37	Resolution Invariant Face Recognition Using a Distillation Approach. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2020, 2, 410-420.	4.4	23
38	Learning image features with fewer labels using a semi-supervised deep convolutional network. Neural Networks, 2020, 132, 131-143.	5.9	14
39	MDLatLRR: A Novel Decomposition Method for Infrared and Visible Image Fusion. IEEE Transactions on Image Processing, 2020, 29, 4733-4746.	9.8	270
40	Low-rank discriminative least squares regression for image classification. Signal Processing, 2020, 173, 107485.	3.7	33
41	Learning discriminative hashing codes for cross-modal retrieval based on multi-view features. Pattern Analysis and Applications, 2020, 23, 1421-1438.	4.6	2
42	A Unified Tensor-based Active Appearance Model. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 15, 1-22.	4.3	5
43	Sensitivity of Age Estimation Systems to Demographic Factors and Image Quality: Achievements and Challenges. , 2020, , .		6
44	Skin Lesion Diagnosis with Imbalanced ECOC Ensembles. Lecture Notes in Computer Science, 2020, , 292-303.	1.3	3
45	Delta Divergence: A Novel Decision Cognizant Measure of Classifier Incongruence. IEEE Transactions on Cybernetics, 2019, 49, 2331-2343.	9.5	9
46	Discriminative Supervised Hashing for Cross-Modal Similarity Search. Image and Vision Computing, 2019, 89, 50-56.	4.5	8
47	A sparse regularized nuclear norm based matrix regression for face recognition with contiguous occlusion. Pattern Recognition Letters, 2019, 125, 494-499.	4.2	37
48	Learning Adaptive Discriminative Correlation Filters via Temporal Consistency Preserving Spatial Feature Selection for Robust Visual Object Tracking. IEEE Transactions on Image Processing, 2019, 28, 5596-5609.	9.8	283
49	Divergence Based Weighting for Information Channels in Deep Convolutional Neural Networks for Bird Audio Detection. , 2019, , .		3
50	The Sixth Visual Object Tracking VOT2018 Challenge Results. Lecture Notes in Computer Science, 2019, , 3-53.	1.3	152
51	Mining Hard Augmented Samples for Robust Facial Landmark Localization With CNNs. IEEE Signal Processing Letters, 2019, 26, 450-454.	3.6	14
52	The Seventh Visual Object Tracking VOT2019 Challenge Results. , 2019, , .		216
53	Joint Group Feature Selection and Discriminative Filter Learning for Robust Visual Object Tracking. , 2019, , .		128
54	VisDrone-SOT2019: The Vision Meets Drone Single Object Tracking Challenge Results. , 2019, , .		19

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55	Spatial Residual Layer and Dense Connection Block Enhanced Spatial Temporal Graph Convolutional Network for Skeleton-Based Action Recognition. , 2019, , .		41
56	Dual Attention MobDenseNet(DAMDNet) for Robust 3D Face Alignment. , 2019, , .		26
57	Sparse subspace clustering via nonconvex approximation. Pattern Analysis and Applications, 2019, 22, 165-176.	4.6	11
58	Semi-Supervised Learning Based on GAN With Mean and Variance Feature Matching. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 539-547.	3.8	11
59	Error sensitivity analysis of Delta divergence - a novel measure for classifier incongruence detection. Pattern Recognition, 2018, 77, 30-44.	8.1	3
60	Gaussian mixture 3D morphable face model. Pattern Recognition, 2018, 74, 617-628.	8.1	57
61	Non-negative Subspace Representation Learning Scheme for Correlation Filter Based Tracking. , 2018, , .		13
62	Multiple Manifolds Metric Learning with Application to Image Set Classification. , 2018, , .		12
63	Wing Loss for Robust Facial Landmark Localisation with Convolutional Neural Networks. , 2018, , .		249
64	Semi-supervised Hashing for Semi-Paired Cross-View Retrieval. , 2018, , .		7
65	Intelligent Signal Processing Mechanisms for Nuanced Anomaly Detection in Action Audio-Visual Data Streams. , 2018, , .		5
66	Dictionary Integration Using 3D Morphable Face Models for Pose-Invariant Collaborative-Representation-Based Classification. IEEE Transactions on Information Forensics and Security, 2018, 13, 2734-2745.	6.9	21
67	Evaluation of Dense 3D Reconstruction from 2D Face Images in the Wild. , 2018, , .		38
68	Improve the Spoofing Resistance of Multimodal Verification with Representation-Based Measures. Lecture Notes in Computer Science, 2018, , 388-399.	1.3	2
69	Face Detection, Bounding Box Aggregation and Pose Estimation for Robust Facial Landmark Localisation in the Wild. , 2017, , .		20
70	An Anomaly Detection Approach to Face Spoofing Detection: A New Formulation and Evaluation Protocol. IEEE Access, 2017, 5, 13868-13882.	4.2	90
71	A decision cognizant Kullbackâ€"Leibler divergence. Pattern Recognition, 2017, 61, 470-478.	8.1	45
72	Dynamic Attention-Controlled Cascaded Shape Regression Exploiting Training Data Augmentation and Fuzzy-Set Sample Weighting. , 2017, , .		70

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73	3D Morphable Face Models and Their Applications. Lecture Notes in Computer Science, 2016, , 185-206.	1.3	14
74	Multi-label classification using stacked spectral kernel discriminant analysis. Neurocomputing, 2016, 171, 127-137.	5.9	17
75	Fitting 3D Morphable Face Models using local features. , 2015, , .		49
76	Cascaded Collaborative Regression for Robust Facial Landmark Detection Trained Using a Mixture of Synthetic and Real Images With Dynamic Weighting. IEEE Transactions on Image Processing, 2015, 24, 3425-3440.	9.8	71
77	Affine normalized stockwell transform based face recognition. , 2015, , .		0
78	Random Cascaded-Regression Copse for Robust Facial Landmark Detection. IEEE Signal Processing Letters, 2015, 22, 76-80.	3.6	65
79	On detection of novel categories and subcategories of images using incongruence. , 2014, , .		5
80	Domain Anomaly Detection in Machine Perception: A System Architecture and Taxonomy. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 845-859.	13.9	36
81	A user-specific and selective multimodal biometric fusion strategy by ranking subjects. Pattern Recognition, 2013, 46, 3341-3357.	8.1	28
82	A facial symmetry prior for improved illumination fitting of 3D morphable model. , 2013, , .		12
83	A Robust and Scalable Visual Category and Action Recognition System Using Kernel Discriminant Analysis With Spectral Regression. IEEE Transactions on Multimedia, 2013, 15, 1653-1664.	7.2	13
84	Improving Discrimination and Face Matching with Caricature. Applied Cognitive Psychology, 2013, 27, 725-734.	1.6	18
85	Dimensionality Reduction Using Stacked Kernel Discriminant Analysis for Multi-label Classification. Lecture Notes in Computer Science, 2013, , 283-294.	1.3	2
86	Differential Edit Distance: A Metric for Scene Segmentation Evaluation. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 904-914.	8.3	14
87	Multilabel classification using heterogeneous ensemble of multi-label classifiers. Pattern Recognition Letters, 2012, 33, 513-523.	4.2	86
88	User-Specific Cohort Selection and Score Normalization for Biometric Systems. IEEE Transactions on Information Forensics and Security, 2012, 7, 1270-1277.	6.9	28
89	Heterogeneous information fusion: A novel fusion paradigm for biometric systems. , 2011, , .		7
90	Incremental Linear Discriminant Analysis Using Sufficient Spanning Sets and Its Applications. International Journal of Computer Vision, 2011, 91, 216-232.	15.6	58

#	ARTICLE	IF	CITATIONS
91	On design and optimization of face verification systems that are smart-card based. Machine Vision and Applications, 2010, 21, 695-711.	2.7	6
92	A review of instance selection methods. Artificial Intelligence Review, 2010, 34, 133-143.	15.7	284
93	Group-specific score normalization for biometric systems. , 2010, , .		21
94	Local Ordinal Contrast Pattern histograms for spatiotemporal, lip-based speaker authentication. , 2010, , .		10
95	Improving Multilabel Classification Performance by Using Ensemble of Multi-label Classifiers. Lecture Notes in Computer Science, 2010, , 11-21.	1.3	13
96	Designing a smart-card-based face verification system: empirical investigation. Machine Vision and Applications, 2009, 20, 225-242.	2.7	3
97	Kernel Discriminant Analysis Using Triangular Kernel for Semantic Scene Classification. , 2009, , .		8
98	Benchmarking Quality-Dependent and Cost-Sensitive Score-Level Multimodal Biometric Fusion Algorithms. IEEE Transactions on Information Forensics and Security, 2009, 4, 849-866.	6.9	77
99	Face Video Competition. Lecture Notes in Computer Science, 2009, , 715-724.	1.3	6
100	A Biometric Menagerie Index for Characterising Template/Model-Specific Variation. Lecture Notes in Computer Science, 2009, , 816-827.	1.3	18
101	Incorporating Model-Specific Score Distribution in Speaker Verification Systems. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 594-606.	3.2	29
102	A methodology for separating sheep from goats for controlled enrollment and multimodal fusion. , 2008, , .		23
103	On using error bounds to optimize cost-sensitive multimodal biometric authentication. , 2008, , .		10
104	Multi-scale Local Binary Pattern Histograms for Face Recognition. Lecture Notes in Computer Science, 2007, , 809-818.	1.3	103
105	Introduction to the Special Issue on Biometrics: Progress and Directions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 513-516.	13.9	48
106	Discriminative Learning and Recognition of Image Set Classes Using Canonical Correlations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1005-1018.	13.9	524
107	Incremental Linear Discriminant Analysis Using Sufficient Spanning Set Approximations. , 2007, , .		79
108	An extreme case of the generalized optimal discriminant transformation and its application to face recognition. Neurocomputing, 2007, 70, 828-834.	5.9	2

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109	On Optimisation of Smart Card Face Verification Systems. , 2006, , .		3
110	Scenario Based Performance Optimisation in Face Verification Using Smart Cards. Lecture Notes in Computer Science, 2005, , 289-300.	1.3	5
111	Component-based LDA face description for image retrieval and MPEG-7 standardisation. Image and Vision Computing, 2005, 23, 631-642.	4.5	55
112	Photometric Normalisation for Face Verification. Lecture Notes in Computer Science, 2005, , 617-626.	1.3	14
113	Performance versus Computational Complexity Trade-Off in Face Verification. Lecture Notes in Computer Science, 2004, , 169-177.	1.3	4
114	Face Authentication Competition on the BANCA Database. Lecture Notes in Computer Science, 2004, , 8-15.	1.3	31
115	An analytical algorithm for determining the generalized optimal set of discriminant vectors. Pattern Recognition, 2004, 37, 1949-1952.	8.1	10
116	The BANCA Database and Evaluation Protocol. Lecture Notes in Computer Science, 2003, , 625-638.	1.3	245