Liang Lin

List of Publications by Year
in descending order

160 papers	9,929 citations	76294 40 h-index	82499 72 g-index
162 all docs	162 docs citations	162 times ranked	6401 citing authors

#	Article	IF	Citations
1	Deep feature learning with relative distance comparison for person re-identification. Pattern Recognition, 2015, 48, 2993-3003.	5.1	570
2	Joint Detection and Identification Feature Learning for Person Search. , 2017, , .		556
3	Bit-Scalable Deep Hashing With Regularized Similarity Learning for Image Retrieval and Person Re-Identification. IEEE Transactions on Image Processing, 2015, 24, 4766-4779.	6.0	422
4	Cost-Effective Active Learning for Deep Image Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2591-2600.	5.6	380
5	Look into Person: Self-Supervised Structure-Sensitive Learning and a New Benchmark for Human Parsing. , 2017, , .		307
6	Larger Norm More Transferable: An Adaptive Feature Norm Approach for Unsupervised Domain Adaptation. , 2019, , .		261
7	Knowledge-Embedded Routing Network for Scene Graph Generation. , 2019, , .		243
8	Look into Person: Joint Body Parsing & Pose Estimation Network and a New Benchmark. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 871-885.	9.7	224
9	Deep Cocktail Network: Multi-source Unsupervised Domain Adaptation with Category Shift. , 2018, , .		218
10	Deep Human Parsing with Active Template Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2402-2414.	9.7	212
11	Learning Collaborative Sparse Representation for Grayscale-Thermal Tracking. IEEE Transactions on Image Processing, 2016, 25, 5743-5756.	6.0	203
12	I2T: Image Parsing to Text Description. Proceedings of the IEEE, 2010, 98, 1485-1508.	16.4	201
13	Multi-label Image Recognition by Recurrently Discovering Attentional Regions. , 2017, , .		181
14	Instance-Level Human Parsing via Part Grouping Network. Lecture Notes in Computer Science, 2018, , 805-822.	1.0	180
15	Instance-Level Salient Object Segmentation. , 2017, , .		174
16	Crowd Counting With Deep Structured Scale Integration Network. , 2019, , .		170
17	Human Parsing with Contextualized Convolutional Neural Network. , 2015, , .		169
18	Contextualized Spatialâ€"Temporal Network for Taxi Origin-Destination Demand Prediction. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3875-3887.	4.7	162

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19	Learning Semantic-Specific Graph Representation for Multi-Label Image Recognition. , 2019, , .		160
20	Attention-Aware Face Hallucination via Deep Reinforcement Learning. , 2017, , .		158
21	Non-locally Enhanced Encoder-Decoder Network for Single Image De-raining. , 2018, , .		157
22	DISC: Deep Image Saliency Computing via Progressive Representation Learning. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1135-1149.	7.2	122
23	Crowd Counting using Deep Recurrent Spatial-Aware Network. , 2018, , .		119
24	Semantic Object Parsing with Local-Global Long Short-Term Memory. , 2016, , .		115
25	Cross-Domain Visual Matching via Generalized Similarity Measure and Feature Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1089-1102.	9.7	114
26	Flow Guided Recurrent Neural Encoder for Video Salient Object Detection. , 2018, , .		113
27	A stochastic graph grammar for compositional object representation and recognition. Pattern Recognition, 2009, 42, 1297-1307.	5.1	112
28	Active Self-Paced Learning for Cost-Effective and Progressive Face Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 7-19.	9.7	110
29	Graphonomy: Universal Human Parsing via Graph Transfer Learning. , 2019, , .		107
30	Proposal-Free Network for Instance-Level Object Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2978-2991.	9.7	95
31	Deep Reasoning with Knowledge Graph for Social Relationship Understanding. , 2018, , .		94
32	LSTM-CF: Unifying Context Modeling and Fusion with LSTMs for RGB-D Scene Labeling. Lecture Notes in Computer Science, 2016, , 541-557.	1.0	93
33	TCGL: Temporal Contrastive Graph for Self-Supervised Video Representation Learning. IEEE Transactions on Image Processing, 2022, 31, 1978-1993.	6.0	86
34	A Deep Structured Model with Radiusâ€"Margin Bound for 3D Human Activity Recognition. International Journal of Computer Vision, 2016, 118, 256-273.	10.9	85
35	Component Divide-and-Conquer for Real-World Image Super-Resolution. Lecture Notes in Computer Science, 2020, , 101-117.	1.0	82
36	F-SVM: Combination of Feature Transformation and SVM Learning via Convex Relaxation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5185-5199.	7.2	79

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37	Discriminatively Trained And-Or Graph Models for Object Shape Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 959-972.	9.7	78
38	PISA: Pixelwise Image Saliency by Aggregating Complementary Appearance Contrast Measures With Edge-Preserving Coherence. IEEE Transactions on Image Processing, 2015, 24, 3019-3033.	6.0	76
39	Knowledge-Guided Multi-Label Few-Shot Learning for General Image Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1371-1384.	9.7	73
40	Learning Support Correlation Filters for Visual Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1158-1172.	9.7	71
41	3D Human Activity Recognition with Reconfigurable Convolutional Neural Networks. , 2014, , .		67
42	Towards Computational Baby Learning: A Weakly-Supervised Approach for Object Detection. , 2015, , .		66
43	Semi-Supervised Video Salient Object Detection Using Pseudo-Labels. , 2019, , .		66
44	Cross-Modal Collaborative Representation Learning and a Large-Scale RGBT Benchmark for Crowd Counting. , 2021, , .		64
45	Complex Background Subtraction by Pursuing Dynamic Spatio-Temporal Models. IEEE Transactions on Image Processing, 2014, 23, 3191-3202.	6.0	62
46	SCAN: Self-and-Collaborative Attention Network for Video Person Re-Identification. IEEE Transactions on Image Processing, 2019, 28, 4870-4882.	6.0	60
47	Deep Dual Learning for Semantic Image Segmentation. , 2017, , .		59
48	Physical-Virtual Collaboration Modeling for Intra- and Inter-Station Metro Ridership Prediction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3377-3391.	4.7	58
49	Fine-Grained Representation Learning and Recognition by Exploiting Hierarchical Semantic Embedding. , 2018, , .		57
50	Knowledge-Embedded Representation Learning for Fine-Grained Image Recognition. , 2018, , .		55
51	Cross-Modal Attentional Context Learning for RGB-D Object Detection. IEEE Transactions on Image Processing, 2019, 28, 1591-1601.	6.0	54
52	Dynamic Spatial-Temporal Representation Learning for Traffic Flow Prediction. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7169-7183.	4.7	54
53	Human Parsing with Contextualized Convolutional Neural Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 115-127.	9.7	53
54	Cross-Domain Facial Expression Recognition: A Unified Evaluation Benchmark and Adversarial Graph Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9887-9903.	9.7	49

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55	Semantics-Aware Adaptive Knowledge Distillation for Sensor-to-Vision Action Recognition. IEEE Transactions on Image Processing, 2021, 30, 5573-5588.	6.0	48
56	Layered Graph Matching with Composite Cluster Sampling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1426-1442.	9.7	46
57	Fashion Parsing With Video Context. IEEE Transactions on Multimedia, 2015, 17, 1347-1358.	5.2	46
58	Structure-Preserving Image Super-Resolution via Contextualized Multitask Learning. IEEE Transactions on Multimedia, 2017, 19, 2804-2815.	5.2	46
59	Attentive Crowd Flow Machines. , 2018, , .		46
60	Fine-Grained Image Captioning With Global-Local Discriminative Objective. IEEE Transactions on Multimedia, 2021, 23, 2413-2427.	5.2	45
61	Representing and recognizing objects with massive local image patches. Pattern Recognition, 2012, 45, 231-240.	5.1	44
62	Sparse Learning-to-Rank via an Efficient Primal-Dual Algorithm. IEEE Transactions on Computers, 2013, 62, 1221-1233.	2.4	43
63	3D Human Pose Machines with Self-supervised Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	43
64	Integrating Graph Partitioning and Matching for Trajectory Analysis in Video Surveillance. IEEE Transactions on Image Processing, 2012, 21, 4844-4857.	6.0	42
65	Hierarchical Ensemble of Background Models for PTZ-Based Video Surveillance. IEEE Transactions on Cybernetics, 2015, 45, 89-102.	6.2	42
66	An Approach to Streaming Video Segmentation With Sub-Optimal Low-Rank Decomposition. IEEE Transactions on Image Processing, 2016, 25, 1947-1960.	6.0	42
67	Transferable, Controllable, and Inconspicuous Adversarial Attacks on Person Re-identification With Deep Mis-Ranking. , 2020, , .		41
68	Adversarial Graph Representation Adaptation for Cross-Domain Facial Expression Recognition. , 2020, , .		41
69	Content-Adaptive Sketch Portrait Generation by Decompositional Representation Learning. IEEE Transactions on Image Processing, 2017, 26, 328-339.	6.0	40
70	Visual Tracking via Dynamic Graph Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2770-2782.	9.7	38
71	Adaptively Connected Neural Networks. , 2019, , .		36
72	Efficient Crowd Counting via Structured Knowledge Transfer. , 2020, , .		35

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73	Semantic event representation and recognition using syntactic attribute graph grammar. Pattern Recognition Letters, 2009, 30, 180-186.	2.6	33
74	Adaptive Temporal Encoding Network for Video Instance-level Human Parsing. , 2018, , .		33
75	Knowledge Graph Transfer Network for Few-Shot Recognition. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10575-10582.	3.6	31
76	Adaptive Object Tracking by Learning Hybrid Template Online. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1588-1599.	5.6	30
77	Object categorization with sketch representation and generalized samples. Pattern Recognition, 2012, 45, 3648-3660.	5.1	30
78	Interpretable Visual Question Answering by Reasoning on Dependency Trees. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 887-901.	9.7	30
79	Dictionary Pair Classifier Driven Convolutional Neural Networks for Object Detection. , 2016, , .		29
80	Distance Metric Learning via Iterated Support Vector Machines. IEEE Transactions on Image Processing, 2017, 26, 4937-4950.	6.0	29
81	Learning Object Interactions and Descriptions for Semantic Image Segmentation. , 2017, , .		29
82	Learning latent spatio-temporal compositional model for human action recognition. , 2013, , .		27
83	Human Pose Estimation from Depth Images via Inference Embedded Multi-task Learning. , 2016, , .		26
84	WELD: Weighted Low-rank Decomposition for Robust Grayscale-Thermal Foreground Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2016, , 1-1.	5.6	25
85	Deep Structured Scene Parsing by Learning with Image Descriptions. , 2016, , .		24
86	Fast Spectral Embedded Clustering Based on Structured Graph Learning for Large-Scale Hyperspectral Image. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	24
87	Reinforcement Learning for Weakly Supervised Temporal Grounding of Natural Language in Untrimmed Videos. , 2020, , .		24
88	Visual Question Reasoning on General Dependency Tree. , 2018, , .		23
89	Marker-less registration based on template tracking for augmented reality. Multimedia Tools and Applications, 2009, 41, 235-252.	2.6	22
90	Integrating Spatio-Temporal Context With Multiview Representation for Object Recognition in Visual Surveillance. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 393-407.	5.6	22

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91	Face Hallucination by Attentive Sequence Optimization with Reinforcement Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	22
92	Facial Landmark Machines: A Backbone-Branches Architecture With Progressive Representation Learning. IEEE Transactions on Multimedia, 2019, 21, 2248-2262.	5.2	22
93	An Empirical Study of Object Category Recognition: Sequential Testing with Generalized Samples. , 2007, , .		21
94	Context-Aware Semantic Inpainting. IEEE Transactions on Cybernetics, 2019, 49, 4398-4411.	6.2	21
95	DDet: Dual-Path Dynamic Enhancement Network for Real-World Image Super-Resolution. IEEE Signal Processing Letters, 2020, 27, 481-485.	2.1	21
96	Depthwise Nonlocal Module for Fast Salient Object Detection Using a Single Thread. IEEE Transactions on Cybernetics, 2021, 51, 6188-6199.	6.2	21
97	Recognizing Focal Liver Lesions in CEUS With Dynamically Trained Latent Structured Models. IEEE Transactions on Medical Imaging, 2016, 35, 713-727.	5.4	20
98	Learning to Segment Human by Watching YouTube. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1462-1468.	9.7	20
99	An expressive deep model for human action parsing from a single image. , 2014, , .		19
100	Robust Feature Point Matching With Sparse Model. IEEE Transactions on Image Processing, 2014, 23, 5175-5186.	6.0	19
101	Adaptive Scene Category Discovery With Generative Learning and Compositional Sampling. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 251-260.	5.6	18
102	Towards a solid solution of real-time fire and flame detection. Multimedia Tools and Applications, 2015, 74, 689-705.	2.6	18
103	Cost-Effective Object Detection: Active Sample Mining With Switchable Selection Criteria. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 834-850.	7.2	18
104	Weakly Supervised Person Re-ID: Differentiable Graphical Learning and a New Benchmark. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2142-2156.	7.2	18
105	Layered Graph Match with Graph Editing. , 2007, , .		17
106	Detection-Free Multiobject Tracking by Reconfigurable Inference With Bundle Representations. IEEE Transactions on Cybernetics, 2016, 46, 2447-2458.	6.2	16
107	Hierarchical Scene Parsing by Weakly Supervised Learning with Image Descriptions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 596-610.	9.7	16
108	Incorporating Structural Alternatives and Sharing into Hierarchy for Multiclass Object Recognition and Detection. , 2013, , .		15

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109	Structured Attention Network for Referring Image Segmentation. IEEE Transactions on Multimedia, 2022, 24, 1922-1932.	5.2	15
110	Tracking Objects with Adaptive Feature Patches for PTZ Camera Visual Surveillance. , 2010, , .		14
111	Crowd Counting via Multi-view Scale Aggregation Networks. , 2019, , .		14
112	Learning Semisupervised Multilabel Fully Convolutional Network for Hierarchical Object Parsing. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1-10.	7.2	14
113	Unsupervised Multi-View Clustering by Squeezing Hybrid Knowledge From Cross View and Each View. IEEE Transactions on Multimedia, 2021, 23, 2943-2956.	5.2	13
114	AU-Expression Knowledge Constrained Representation Learning for Facial Expression Recognition. , 2021, , .		13
115	Discovering Video Shot Categories by Unsupervised Stochastic Graph Partition. IEEE Transactions on Multimedia, 2013, 15, 167-180.	5.2	12
116	Deep Boosting: Joint feature selection and analysis dictionary learning in hierarchy. Neurocomputing, 2016, 178, 36-45.	3.5	12
117	Deductive Reinforcement Learning for Visual Autonomous Urban Driving Navigation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5379-5391.	7.2	12
118	Learning to Segment Object Candidates via Recursive Neural Networks. IEEE Transactions on Image Processing, 2018, 27, 5827-5839.	6.0	11
119	Unifying Relational Sentence Generation and Retrieval for Medical Image Report Composition. IEEE Transactions on Cybernetics, 2022, 52, 5015-5025.	6.2	11
120	Salient object detection based on regions. Multimedia Tools and Applications, 2014, 68, 517-544.	2.6	10
121	Neural Task Planning With AND–OR Graph Representations. IEEE Transactions on Multimedia, 2019, 21, 1022-1034.	5.2	10
122	Unifying Temporal Context and Multi-Feature With Update-Pacing Framework for Visual Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1078-1091.	5.6	10
123	Robust Real-World Image Super-Resolution against Adversarial Attacks. , 2021, , .		10
124	Learning deep representations for semantic image parsing: a comprehensive overview. Frontiers of Computer Science, 2018, 12, 840-857.	1.6	9
125	Taxi Origin-Destination Demand Prediction with Contextualized Spatial-Temporal Network. , 2019, , .		9
126	Progressively diffused networks for semantic visual parsing. Pattern Recognition, 2019, 90, 78-86.	5.1	9

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127	Lightweight adversarial network for salient object detection. Neurocomputing, 2020, 381, 130-140.	3.5	9
128	Fashion Retrieval via Graph Reasoning Networks on a Similarity Pyramid. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 7019-7034.	9.7	9
129	A Hamiltonian Monte Carlo Method for Probabilistic Adversarial Attack and Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1725-1737.	9.7	9
130	Hierarchical Reasoning Network for Human-Object Interaction Detection. IEEE Transactions on Image Processing, 2021, 30, 8306-8317.	6.0	9
131	Learning Spatially Variant Linear Representation Models for Joint Filtering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	9
132	Graphonomy: Universal Image Parsing via Graph Reasoning and Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	9
133	Data-Driven Scene Understanding with Adaptively Retrieved Exemplars. IEEE MultiMedia, 2015, 22, 82-92.	1.5	7
134	Learning Compositional Shape Models of Multiple Distance Metrics by Information Projection. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1417-1428.	7.2	7
135	Knowledge-Routed Visual Question Reasoning: Challenges for Deep Representation Embedding. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2758-2767.	7.2	7
136	AIM 2020 Challenge on Real Image Super-Resolution: Methods and Results. Lecture Notes in Computer Science, 2020, , 392-422.	1.0	7
137	Pi-NAS: Improving Neural Architecture Search by Reducing Supernet Training Consistency Shift. , 2021, , .		7
138	Real-World Image Super-Resolution by Exclusionary Dual-Learning. IEEE Transactions on Multimedia, 2023, 25, 4752-4763.	5.2	7
139	Configurable Graph Reasoning for Visual Relationship Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 117-129.	7.2	6
140	Aerial Images Meet Crowdsourced Trajectories: A New Approach to Robust Road Extraction. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3308-3322.	7.2	6
141	Face Recognition by Coarse-to-Fine Landmark Regression with Application to ATM Surveillance. Communications in Computer and Information Science, 2017, , 62-73.	0.4	5
142	Deep Co-Space: Sample Mining Across Feature Transformation for Semi-Supervised Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2667-2678.	5.6	5
143	Online Alternate Generator Against Adversarial Attacks. IEEE Transactions on Image Processing, 2020, 29, 9305-9315.	6.0	5
144	Adversarial Reinforced Instruction Attacker for Robust Vision-Language Navigation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7175-7189.	9.7	5

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145	Deep boosting: Layered feature mining for general image classification. , 2014, , .		4
146	Perceptual Image Enhancement by Relativistic Discriminant Learning With Cross-Scale Aggregated Representation. IEEE Access, 2019, 7, 39660-39669.	2.6	4
147	Graph-Convolved Factorization Machines for Personalized Recommendation. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	4
148	Deep CockTail Networks. International Journal of Computer Vision, 2021, 129, 2328-2351.	10.9	4
149	Joint Learning of Neural Transfer and Architecture Adaptation for Image Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5401-5415.	7.2	4
150	Multi-label image recognition with attentive transformer-localizer module. Multimedia Tools and Applications, 2022, 81, 7917-7940.	2.6	4
151	CamDrop. , 2019, , .		3
152	Grammatically Recognizing Images with Tree Convolution. , 2020, , .		3
153	Realtime object-of-interest tracking by learning Composite Patch-based Templates. , 2012, , .		2
154	GTAE: Graph Transformerâ€"Based Auto-Encoders for Linguistic-Constrained Text Style Transfer. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-16.	2.9	2
155	Face Localization and Enhancement. , 2020, , 29-45.		1
156	Active Object Search. , 2020, , .		1
157	Image Comes Dancing With Collaborative Parsing-Flow Video Synthesis. IEEE Transactions on Image Processing, 2021, 30, 9259-9269.	6.0	1
158	Person Verification. , 2020, , 99-114.		0
159	Face Verification. , 2020, , 115-130.		0
160	Human Activity Understanding. , 2020, , 135-156.		0