Chang-Tsun Li

List of Publications by Year
in descending order

180 papers	3,016 citations	236612 25 h-index	233125 45 g-index
184 all docs	184 docs citations	184 times ranked	2075 citing authors

#	Article	IF	Citations
1	Delve Into Neural Activations: Toward Understanding Dying Neurons. IEEE Transactions on Artificial Intelligence, 2023, 4, 959-971.	3.4	1
2	Improving Face-Based Age Estimation With Attention-Based Dynamic Patch Fusion. IEEE Transactions on Image Processing, 2022, 31, 1084-1096.	6.0	18
3	Defining Security Requirements With the Common Criteria: Applications, Adoptions, and Challenges. IEEE Access, 2022, 10, 44756-44777.	2.6	13
4	How Do Organizations Seek Cyber Assurance? Investigations on the Adoption of the Common Criteria and Beyond. IEEE Access, 2022, 10, 71749-71763.	2.6	7
5	Robust Brain Age Estimation Based on sMRI via Nonlinear Age-Adaptive Ensemble Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 2146-2156.	2.7	2
6	On Addressing the Impact of ISO Speed Upon PRNU and Forgery Detection. IEEE Transactions on Information Forensics and Security, 2021, 16, 190-202.	4.5	18
7	Multi-Domain Adversarial Feature Generalization for Person Re-Identification. IEEE Transactions on Image Processing, 2021, 30, 1596-1607.	6.0	33
8	An HEVC steganalytic approach against motion vector modification using local optimality in candidate list. Pattern Recognition Letters, 2021, 146, 23-30.	2.6	6
9	On the detection-to-track association for online multi-object tracking. Pattern Recognition Letters, 2021, 146, 200-207.	2.6	28
10	On Constructing A Better Correlation Predictor For Prnu-Based Image Forgery Localization. , 2021, , .		2
11	Guest Editorial: Adversarial Deep Learning in Biometrics & Forensics. Computer Vision and Image Understanding, 2021, 208-209, 103227.	3.0	0
12	DeepfakeUCL: Deepfake Detection via Unsupervised Contrastive Learning. , 2021, , .		24
13	Identification of source social network of digital images using deep neural network. Pattern Recognition Letters, 2021, 150, 17-25.	2.6	11
14	Knowledge discovery and visualisation framework using machine learning for music information retrieval from broadcast radio data. Expert Systems With Applications, 2021, 182, 115236.	4.4	11
15	Age-Oriented Face Synthesis With Conditional Discriminator Pool and Adversarial Triplet Loss. IEEE Transactions on Image Processing, 2021, 30, 5413-5425.	6.0	7
16	Dronecaps: Recognition Of Human Actions In Drone Videos Using Capsule Networks With Binary Volume Comparisons. , 2020, , .		5
17	ENF Based Video Forgery Detection Algorithm. International Journal of Digital Crime and Forensics, 2020, 12, 131-156.	0.5	11
18	Provenance Inference for Instagram Photos Through Device Fingerprinting. IEEE Access, 2020, 8, 168309-168320.	2.6	3

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19	IEEE Access Special Section: Digital Forensics Through Multimedia Source Inference. IEEE Access, 2020, 8, 209657-209659.	2.6	1
20	PRNU-Based Content Forgery Localization Augmented With Image Segmentation. IEEE Access, 2020, 8, 222645-222659.	2.6	9
21	Manifold learning for user profiling and identity verification using motion sensors. Pattern Recognition, 2020, 106, 107408.	5.1	7
22	Warwick Image Forensics Dataset for Device Fingerprinting in Multimedia Forensics. , 2020, , .		10
23	Using Age Information as a Soft Biometric Trait for Face Image Analysis. Unsupervised and Semi-supervised Learning, 2020, , 1-20.	0.4	1
24	Atypical Facial Landmark Localisation with Stacked Hourglass Networks: A Study on 3D Facial Modelling for Medical Diagnosis. Unsupervised and Semi-supervised Learning, 2020, , 37-49.	0.4	1
25	Person Re-identification with Soft Biometrics Through Deep Learning. Unsupervised and Semi-supervised Learning, 2020, , 21-36.	0.4	1
26	Auto-Zooming CNN-Based Framework for Real-Time Pedestrian Detection in Outdoor Surveillance Videos. IEEE Access, 2019, 7, 105816-105826.	2.6	17
27	Accelerometer Dense Trajectories for Activity Recognition and People Identification. , 2019, , .		5
28	Social Network Forensics through Smartphones and Shared Images. , 2019, , .		2
29	Hybrid Clustering of Shared Images on Social Networks for Digital Forensics. IEEE Access, 2019, 7, 87288-87302.	2.6	10
30	Compact and Low-Complexity Binary Feature Descriptor and Fisher Vectors for Video Analytics. IEEE Transactions on Image Processing, 2019, 28, 6169-6184.	6.0	8
31	3DPalsyNet: A Facial Palsy Grading and Motion Recognition Framework Using Fully 3D Convolutional Neural Networks. IEEE Access, 2019, 7, 121655-121664.	2.6	27
32	Learning Temporal Information from Spatial Information Using CapsNets for Human Action Recognition. , 2019, , .		15
33	Privacy-Preserving Reversible Information Hiding Based on Arithmetic of Quadratic Residues. IEEE Access, 2019, 7, 54117-54132.	2.6	40
34	Social Network Identification Through Image Classification With CNN. IEEE Access, 2019, 7, 35264-35273.	2.6	34
35	WolfPath: Accelerating Iterative Traversing-Based Graph Processing Algorithms on GPU. International Journal of Parallel Programming, 2019, 47, 644-667.	1.1	1
36	Algebraic secret sharing using privacy homomorphisms for IoT-based healthcare systems. Mathematical Biosciences and Engineering, 2019, 16, 3367-3381.	1.0	28

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37	Modelling and developing conflict-aware scheduling on large-scale data centres. Future Generation Computer Systems, 2018, 86, 995-1007.	4.9	2
38	Inference of a compact representation of sensor fingerprint for source camera identification. Pattern Recognition, 2018, 74, 556-567.	5.1	37
39	Fast fragile watermark embedding and iterative mechanism with high self-restoration performance. , 2018, 73, 83-92.		40
40	Fast Detection of Abnormal Events in Videos with Binary Features. , 2018, , .		5
41	A Multi-Task Learning CNN for Image Steganalysis. , 2018, , .		8
42	Rotation-invariant Binary Representation of Sensor Pattern Noise for Source-Oriented Image and Video Clustering. , 2018, , .		2
43	Privacy-Aware Reversible Watermarking in Cloud Computing Environments. IEEE Access, 2018, 6, 70720-70733.	2.6	49
44	Fusion Network for Face-Based Age Estimation. , 2018, , .		7
45	Detecting Small Objects in High Resolution Images with Integral Fisher Score. , 2018, , .		2
46	Active learning in multi-domain collaborative filtering recommender systems. , 2018, , .		0
47	Developing a pattern discovery method in time series data and its GPU acceleration. Big Data Mining and Analytics, 2018, 1, 266-283.	7.5	13
48	On view‑invariant gait recognition: a feature selection solution. IET Biometrics, 2018, 7, 287-295.	1.6	18
49	Hierarchical Relaxed Partitioning System for Activity Recognition. IEEE Transactions on Cybernetics, 2017, 47, 784-795.	6.2	9
50	Weighted Level Set Evolution Based on Local Edge Features for Medical Image Segmentation. IEEE Transactions on Image Processing, 2017, 26, 1979-1991.	6.0	147
51	Video Anomaly Detection With Compact Feature Sets for Online Performance. IEEE Transactions on Image Processing, 2017, 26, 3463-3478.	6.0	116
52	The LV dataset: A realistic surveillance video dataset for abnormal event detection. , 2017, , .		26
53	Reversible data hiding in JPEG images based on adjustable padding. , 2017, , .		6
54	An adaptive tri-pixel unit steganographic algorithm using the least two significant bits. , 2017, , .		0

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55	Fast and robust framework for view-invariant gait recognition. , 2017, , .		3
56	Patch-based segmentation of overlapping cervical cells using active contour with local edge information. , 2017, , .		3
57	Abnormal event detection in videos using binary features. , 2017, , .		12
58	Learning optimised representations for view-invariant gait recognition. , 2017, , .		4
59	Matrix Factorization With Rating Completion: An Enhanced SVD Model for Collaborative Filtering Recommender Systems. IEEE Access, 2017, 5, 27668-27678.	2.6	59
60	Secure Secret Sharing in the Cloud. , 2017, , .		1
61	End-to-End Correspondence and Relationship Learning of Mid-Level Deep Features for Person Re-Identification. , 2017, , .		2
62	A fast source-oriented image clustering method for digital forensics. Eurasip Journal on Image and Video Processing, 2017, 2017, .	1.7	23
63	Face Recognition Technologies for Evidential Evaluation of Video Traces. Advances in Computer Vision and Pattern Recognition, 2017, , 177-193.	0.9	3
64	A Novel Online Bayes Classifier. , 2016, , .		3
65	Large-Scale Image Clustering Based on Camera Fingerprints. IEEE Transactions on Information Forensics and Security, 2016, , 1-1.	4.5	16
66	Enhanced SVD for Collaborative Filtering. Lecture Notes in Computer Science, 2016, , 503-514.	1.0	7
67	Refining PRNU-based detection of image forgeries. , 2016, , .		7
68	Gait recognition based on the golden ratio. Eurasip Journal on Image and Video Processing, 2016, 2016, .	1.7	19
69	A fast binary pair-based video descriptor for action recognition. , 2016, , .		4
70	Enhancing Sensor Pattern Noise via Filtering Distortion Removal. IEEE Signal Processing Letters, 2016, 23, 381-385.	2.1	48
71	Preprocessing Reference Sensor Pattern Noise via Spectrum Equalization. IEEE Transactions on Information Forensics and Security, 2016, 11, 126-140.	4.5	88
72	On Reducing the Effect of Covariate Factors in Gait Recognition: A Classifier Ensemble Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1521-1528.	9.7	112

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73	Hand gesture recognition and spotting in uncontrolled environments based on classifier weighting. , 2015, , .		7
74	On Reducing the Effect of Silhouette Quality on Individual Gait Recognition: A Feature Fusion Approach. , 2015, , .		3
75	Random subspace method for source camera identification. , 2015, , .		4
76	Incremental update of feature extractor for camera identification. , 2015, , .		1
77	The influence of segmentation on individual gait recognition. , 2015, , .		0
78	A compact representation of sensor fingerprint for camera identification and fingerprint matching. , 2015, , .		9
79	Fast source camera identification using matching signs between query and reference fingerprints. Multimedia Tools and Applications, 2015, 74, 7405-7428.	2.6	11
80	On the Generalization Power of Face and Gait in Gender Recognition. International Journal of Digital Crime and Forensics, 2014, 6, 1-8.	0.5	2
81	Active contours based on weighted gradient vector flow and balloon forces for medical image segmentation. , 2014, , .		7
82	Dynamic Image-to-Class Warping for Occluded Face Recognition. IEEE Transactions on Information Forensics and Security, 2014, 9, 2035-2050.	4.5	35
83	PCA-based denoising of Sensor Pattern Noise for source camera identification. , 2014, , .		10
84	A reference estimator based on composite sensor pattern noise for source device identification. , 2014, , .		3
85	Two improved forensic methods of detecting contrast enhancement in digital images. Proceedings of SPIE, 2014, , .	0.8	2
86	Gait recognition using low spatial and temporal resolution videos. , 2014, , .		3
87	Human gait identification from extremely low†quality videos: an enhanced classifier ensemble method. IET Biometrics, 2014, 3, 84-93.	1.6	8
88	People Identification and Tracking Through Fusion of Facial and Gait Features. Lecture Notes in Computer Science, 2014, , 209-221.	1.0	7
89	Robust face recognition with occlusions in both reference and query images. , 2013, , .		0
90	Applying a Digital forensic readiness framework: Three case studies. , 2013, , .		13

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91	Combining gait and face for tackling the elapsed time challenges. , 2013, , .		13
92	A robust speed-invariant gait recognition system for walker and runner identification. , 2013, , .		44
93	Fixation and Saccade Based Face Recognition from Single Image per Person with Various Occlusions and Expressions. , 2013, , .		12
94	Face recognition with occlusion using Dynamic Image-to-Class Warping (DICW). , 2013, , .		15
95	Robust gait recognition from extremely low frame-rate videos. , 2013, , .		7
96	Audio forensic authentication based on MOCC between ENF and reference signals. , 2013, , .		12
97	A Framework for Real-Time Hand Gesture Recognition in Uncontrolled Environments with Partition Matrix Model Based on Hidden Conditional Random Fields. , 2013, , .		0
98	Exposing image forgery through the detection of contrast enhancement. , 2013, , .		26
99	Hand Gesture Segmentation in Uncontrolled Environments with Partition Matrix and a Spotting Scheme Based on Hidden Conditional Random Fields. , 2013, , .		2
100	Gait recognition under carrying condition: a static dynamic fusion method. , 2012, , .		0
101	An adaptive system for gait recognition in multi-view environments. , 2012, , .		6
102	Proactive Digital Forensics: The Ever-Increasing Need for Standardization. , 2012, , .		1
103	An Improved Algorithm for Camera Model Identification Using Inter-channel Demosaicking Traces. , 2012, , .		4
104	Robust Clothing-Invariant Gait Recognition. , 2012, , .		31
105	Watermarking method with exact self-propagating restoration capabilities. , 2012, , .		9
106	Random Subspace Method for Gait Recognition. , 2012, , .		14
107	Robust Face Recognition under Varying Illumination and Occlusion Considering Structured Sparsity. , 2012, , .		18
108	Fast camera fingerprint search algorithm for source camera identification. , 2012, , .		9

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109	Color-Decoupled Photo Response Non-Uniformity for Digital Image Forensics. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 260-271.	5.6	97
110	Empirical investigation into the correlation between vignetting effect and the quality of sensor pattern noise. IET Computer Vision, 2012, 6, 560-566.	1.3	16
111	An Improved Fingerprinting Algorithm for Detection of Video Frame Duplication Forgery. International Journal of Digital Crime and Forensics, 2012, 4, 20-32.	0.5	6
112	Optimized digital library for digital forenisc based on Decomposed PRNU. , 2011, , .		1
113	Directed Partial Correlation: Inferring Large-Scale Gene Regulatory Network through Induced Topology Disruptions. PLoS ONE, 2011, 6, e16835.	1.1	29
114	Digital Forensic Readiness: An Insight into Governmental and Academic Initiatives. , 2011, , .		16
115	Source Camera Identification Issues. International Journal of Digital Crime and Forensics, 2011, 3, 1-15.	0.5	2
116	A Conditional Random Field Approach to Unsupervised Texture Image Segmentation. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	5
117	Progressive Exponential Clustering-Based Steganography. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	1
118	Building fingerprints with information from three color bands for source camera identification. , 2010, , .		5
119	Source Camera Identification Using Enhanced Sensor Pattern Noise. IEEE Transactions on Information Forensics and Security, 2010, 5, 280-287.	4.5	285
120	A temporal precedence based clustering method for gene expression microarray data. BMC Bioinformatics, 2010, 11, 68.	1.2	9
121	A semi-fragile watermarking algorithm for authenticating 2D CAD engineering graphics based on log-polar transformation. CAD Computer Aided Design, 2010, 42, 1207-1216.	1.4	32
122	Using improved imaging sensor pattern noise for source camera identification. , 2010, , .		14
123	Unsupervised classification of digital images using enhanced sensor pattern noise. , 2010, , .		43
124	Digital camera identification using Colour-Decoupled photo response non-uniformity noise pattern. , 2010, , .		17
125	A Semi-fragile Watermarking Algorithm for Authenticating 2D Engineering Graphics Based on Log-Polar Transformation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 11-18.	0.2	0
126	Selecting forensic features for robust source camera identification. , 2010, , .		16

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127	On the Repudiability of Device Identification and Image Integrity Verification Using Sensor Pattern Noise. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 19-25.	0.2	13
128	A reversible watermarking scheme for 2D engineering graphics based on improved quantisation index modulation. , 2009, , .		1
129	Source camera linking using enhanced sensor pattern noise extracted from images. , 2009, , .		5
130	Authentication and recovery of digital images: Potential application in video surveillance and remote sensing. , 2009, , .		5
131	Source camera identification using enahnced sensor pattern noise. , 2009, , .		6
132	Trademark image retrieval using synthetic features for describing global shape and interior structure. Pattern Recognition, 2009, 42, 386-394.	5.1	148
133	Inferring Causal Relations from Multivariate Time Series: A Fast Method for Large-Scale Gene Expression Data. , 2009, , .		0
134	Interaction Based Functional Clustering of Genomic Data. , 2009, , .		1
135	A Contrast-Sensitive Reversible Visible Image Watermarking Technique. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 656-667.	5.6	70
136	Detection of Block Artifacts for Digital Forensic Analysis. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 173-178.	0.2	2
137	Protection of Digital Mammograms on PACSs Using Data Hiding Techniques. International Journal of Digital Crime and Forensics, 2009, 1, 75-88.	0.5	11
138	Medical Images Authentication through Repetitive Index Modulation Based Watermarking. International Journal of Digital Crime and Forensics, 2009, 1, 32-39.	0.5	3
139	Decomposed Photo Response Non-Uniformity for Digital Forensic Analysis. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 166-172.	0.2	5
140	Authenticating Medical Images through Repetitive Index Modulation Based Watermarking. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 153-159.	0.2	1
141	Partial mixture model for tight clustering of gene expression time-course. BMC Bioinformatics, 2008, 9, 287.	1.2	17
142	Random Index Modulation Based Fragile Watermarking Scheme for Authenticating Colour Images. , 2008, , .		3
143	An unsupervised conditional random fields approach for clustering gene expression time series. Bioinformatics, 2008, 24, 2467-2473.	1.8	23
144	Removable visible image watermarking algorithm in the discrete cosine transform domain. Journal of Electronic Imaging, 2008, 17, 033008.	0.5	29

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145	CBIR approach to building image retrieval based on invariant characteristics in Hough domain. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	7
146	Probabilistic framework for gene expression clustering validation based on gene ontology and graph theory. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
147	A Bayes Random Fields Approach for Integrative Large-Scale Regulatory Network Analysis. Journal of Integrative Bioinformatics, 2008, 5, .	1.0	0
148	MIMIC-PPT: Mimicking-Based Steganography for Microsoft Power Point Document. Information Technology Journal, 2008, 7, 654-660.	0.3	9
149	A Bayes random field approach for integrative large-scale regulatory network analysis. Journal of Integrative Bioinformatics, 2008, 5, .	1.0	0
150	Structural Digital Signature and Semi-Fragile Fingerprinting for Image Authentication in Wavelet Domain. , 2007, , .		11
151	Unsupervised Clustering of Gene Expression Time Series with Conditional Random Fields. , 2007, , .		4
152	Effective Extraction of Gabor Features for Adaptive Mammogram Retrieval. , 2007, , .		19
153	Wavelet-based fragile watermarking scheme for image authentication. Journal of Electronic Imaging, 2007, 16, 013009.	0.5	39
154	Structural Digital Signature and Semi-Fragile Fingerprinting for Image Authentication in Wavelet Domain. , 2007, , .		5
155	Protection of Mammograms Using Blind Steganography and Watermarking. , 2007, , .		1
156	Steganographic Method for Colour Image Using Expandable Progressive Exponential Clustering. , 2007, , .		0
157	Partial Mixture Model for Tight Clustering in Exploratory Gene Expression Analysis. , 2007, , .		3
158	Protection of Mammograms Using Blind Steganography and Watermarking. , 2007, , .		7
159	Learning Pathological Characteristics from User's Relevance Feedback for Content-Based Mammogram Retrieval. , 2006, , .		3
160	Digital watermarking scheme exploiting nondeterministic dependence for image authentication. Optical Engineering, 2006, 45, 127001.	0.5	22
161	Steganographic Scheme for VQ Compressed Images Using Progressive Exponential Clustering. , 2006, , .		5
162	Skin Colour-Based Face Detection in Colour Images. , 2006, , .		17

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163	CBIR Approach to Building Image Retrieval Based on Linear Edge Distribution. , 2006, , .		3
164	<title>A general framework for content-based medical image retrieval with its application to mammograms</title>. , 2005, , .		27
165	A palette-based image steganographic method using colour quantisation. , 2005, , .		10
166	Fragile watermarking scheme exploiting non-deterministic block-wise dependency. , 2004, , .		3
167	Fragile watermarking scheme based on the block-wise dependence in the wavelet domain. , 2004, , .		3
168	Semi-fragile watermarking scheme for authentication of JPEG images. , 2004, , .		28
169	Multiresolution genetic clustering algorithm for texture segmentation. Image and Vision Computing, 2003, 21, 955-966.	2.7	18
170	Multiresolution image segmentation integrating Gibbs sampler and region merging algorithm. Signal Processing, 2003, 83, 67-78.	2.1	15
171	A class of discrete multiresolution random fields and its application to image segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 42-56.	9.7	67
172	One-dimensional neighborhood forming strategy for fragile watermarking. Journal of Electronic Imaging, 2003, 12, 284.	0.5	38
173	Watermarking scheme for authentication of compressed image. , 2003, , .		3
174	Oblivious fragile watermarking scheme for image authentication. , 2002, , .		0
175	An approach to reducing the labeling cost of Markov random fields within an infinite label space. Signal Processing, 2001, 81, 609-620.	2.1	4
176	Image segmentation based on a multiresolution Bayesian framework. , 0, , .		4
177	Edge detection based on the multiresolution Fourier transform. , 0, , .		1
178	Image authentication and integrity verification via content-based watermarks and a public key cryptosystem. , 0, , .		11
179	Medical Images Authentication through Repetitive Index Modulation Based Watermarking. , 0, , 202-209.		1
180	Protection of Digital Mammograms on PACSs Using Data Hiding Techniques. , 0, , 177-189.		0