

Chang-Tsun Li

List of Publications by Year in descending order

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Version: 2024-02-01

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	Source Camera Identification Using Enhanced Sensor Pattern Noise. IEEE Transactions on Information Forensics and Security, 2010, 5, 280-287.	4.5	285
2	Trademark image retrieval using synthetic features for describing global shape and interior structure. Pattern Recognition, 2009, 42, 386-394.	5.1	148
3	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
4	Video Anomaly Detection With Compact Feature Sets for Online Performance. IEEE Transactions on Image Processing, 2017, 26, 3463-3478.	6.0	116
5	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
6	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
7	Preprocessing Reference Sensor Pattern Noise via Spectrum Equalization. IEEE Transactions on Information Forensics and Security, 2016, 11, 126-140.	4.5	88
8	A Contrast-Sensitive Reversible Visible Image Watermarking Technique. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 656-667.	5.6	70
9	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
10	Matrix Factorization With Rating Completion: An Enhanced SVD Model for Collaborative Filtering Recommender Systems. IEEE Access, 2017, 5, 27668-27678.	2.6	59
11	Privacy-Aware Reversible Watermarking in Cloud Computing Environments. IEEE Access, 2018, 6, 70720-70733.	2.6	49
12	Enhancing Sensor Pattern Noise via Filtering Distortion Removal. IEEE Signal Processing Letters, 2016, 23, 381-385.	2.1	48
13	A robust speed-invariant gait recognition system for walker and runner identification. , 2013, , .		44
14	Unsupervised classification of digital images using enhanced sensor pattern noise. , 2010, , .		43
15	Fast fragile watermark embedding and iterative mechanism with high self-restoration performance. , 2018, 73, 83-92.		40
16	Privacy-Preserving Reversible Information Hiding Based on Arithmetic of Quadratic Residues. IEEE Access, 2019, 7, 54117-54132.	2.6	40
17	Wavelet-based fragile watermarking scheme for image authentication. Journal of Electronic Imaging, 2007, 16, 013009.	0.5	39
18	One-dimensional neighborhood forming strategy for fragile watermarking. Journal of Electronic Imaging, 2003, 12, 284.	0.5	38

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19	Inference of a compact representation of sensor fingerprint for source camera identification. Pattern Recognition, 2018, 74, 556-567.	5.1	37
20	Dynamic Image-to-Class Warping for Occluded Face Recognition. IEEE Transactions on Information Forensics and Security, 2014, 9, 2035-2050.	4.5	35
21	Social Network Identification Through Image Classification With CNN. IEEE Access, 2019, 7, 35264-35273.	2.6	34
22	Multi-Domain Adversarial Feature Generalization for Person Re-Identification. IEEE Transactions on Image Processing, 2021, 30, 1596-1607.	6.0	33
23	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
24	Robust Clothing-Invariant Gait Recognition. , 2012, , .		31
25	Removable visible image watermarking algorithm in the discrete cosine transform domain. Journal of Electronic Imaging, 2008, 17, 033008.	0.5	29
26	Directed Partial Correlation: Inferring Large-Scale Gene Regulatory Network through Induced Topology Disruptions. PLoS ONE, 2011, 6, e16835.	1.1	29
27	Semi-fragile watermarking scheme for authentication of JPEG images. , 2004, , .		28
28	On the detection-to-track association for online multi-object tracking. Pattern Recognition Letters, 2021, 146, 200-207.	2.6	28
29	Algebraic secret sharing using privacy homomorphisms for IoT-based healthcare systems. Mathematical Biosciences and Engineering, 2019, 16, 3367-3381.	1.0	28
30	<title>A general framework for content-based medical image retrieval with its application to mammograms</title>. , 2005, , .		27
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	Exposing image forgery through the detection of contrast enhancement. , 2013, , .		26
33	The LV dataset: A realistic surveillance video dataset for abnormal event detection. , 2017, , .		26
34	DeepfakeUCL: Deepfake Detection via Unsupervised Contrastive Learning. , 2021, , .		24
35	An unsupervised conditional random fields approach for clustering gene expression time series. Bioinformatics, 2008, 24, 2467-2473.	1.8	23
36	A fast source-oriented image clustering method for digital forensics. Eurasip Journal on Image and Video Processing, 2017, 2017, .	1.7	23

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37	Digital watermarking scheme exploiting nondeterministic dependence for image authentication. Optical Engineering, 2006, 45, 127001.	0.5	22
38	Effective Extraction of Gabor Features for Adaptive Mammogram Retrieval. , 2007, , .		19
39	Gait recognition based on the golden ratio. Eurasip Journal on Image and Video Processing, 2016, 2016, .	1.7	19
40	Multiresolution genetic clustering algorithm for texture segmentation. Image and Vision Computing, 2003, 21, 955-966.	2.7	18
41	Robust Face Recognition under Varying Illumination and Occlusion Considering Structured Sparsity. , 2012, , .		18
42	On viewâ€invariant gait recognition: a feature selection solution. IET Biometrics, 2018, 7, 287-295.	1.6	18
43	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
44	Improving Face-Based Age Estimation With Attention-Based Dynamic Patch Fusion. IEEE Transactions on Image Processing, 2022, 31, 1084-1096.	6.0	18
45	Skin Colour-Based Face Detection in Colour Images. , 2006, , .		17
46	Partial mixture model for tight clustering of gene expression time-course. BMC Bioinformatics, 2008, 9, 287.	1.2	17
47	Digital camera identification using Colour-Decoupled photo response non-uniformity noise pattern. , 2010, , .		17
48	Auto-Zooming CNN-Based Framework for Real-Time Pedestrian Detection in Outdoor Surveillance Videos. IEEE Access, 2019, 7, 105816-105826.	2.6	17
49	Selecting forensic features for robust source camera identification. , 2010, , .		16
50	Digital Forensic Readiness: An Insight into Governmental and Academic Initiatives. , 2011, , .		16
51	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
52	Large-Scale Image Clustering Based on Camera Fingerprints. IEEE Transactions on Information Forensics and Security, 2016, , 1-1.	4.5	16
53	Multiresolution image segmentation integrating Gibbs sampler and region merging algorithm. Signal Processing, 2003, 83, 67-78.	2.1	15
54	Face recognition with occlusion using Dynamic Image-to-Class Warping (DICW). , 2013, , .		15

#	ARTICLE	IF	CITATIONS
55	Learning Temporal Information from Spatial Information Using CapsNets for Human Action Recognition. , 2019, , .		15
56	Using improved imaging sensor pattern noise for source camera identification. , 2010, , .		14
57	Random Subspace Method for Gait Recognition. , 2012, , .		14
58	Applying a Digital forensic readiness framework: Three case studies. , 2013, , .		13
59	Combining gait and face for tackling the elapsed time challenges. , 2013, , .		13
60	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
61	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
62	Defining Security Requirements With the Common Criteria: Applications, Adoptions, and Challenges. IEEE Access, 2022, 10, 44756-44777.	2.6	13
63	Fixation and Saccade Based Face Recognition from Single Image per Person with Various Occlusions and Expressions. , 2013, , .		12
64	Audio forensic authentication based on MOCC between ENF and reference signals. , 2013, , .		12
65	Abnormal event detection in videos using binary features. , 2017, , .		12
66	Image authentication and integrity verification via content-based watermarks and a public key cryptosystem. , 0, , .		11
67	Structural Digital Signature and Semi-Fragile Fingerprinting for Image Authentication in Wavelet Domain. , 2007, , .		11
68	Fast source camera identification using matching signs between query and reference fingerprints. Multimedia Tools and Applications, 2015, 74, 7405-7428.	2.6	11
69	ENF Based Video Forgery Detection Algorithm. International Journal of Digital Crime and Forensics, 2020, 12, 131-156.	0.5	11
70	Identification of source social network of digital images using deep neural network. Pattern Recognition Letters, 2021, 150, 17-25.	2.6	11
71	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
72	Protection of Digital Mammograms on PACSs Using Data Hiding Techniques. International Journal of Digital Crime and Forensics, 2009, 1, 75-88.	0.5	11

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73	A palette-based image steganographic method using colour quantisation. , 2005, , .		10
74	PCA-based denoising of Sensor Pattern Noise for source camera identification. , 2014, , .		10
75	Hybrid Clustering of Shared Images on Social Networks for Digital Forensics. IEEE Access, 2019, 7, 87288-87302.	2.6	10
76	Warwick Image Forensics Dataset for Device Fingerprinting in Multimedia Forensics. , 2020, , .		10
77	A temporal precedence based clustering method for gene expression microarray data. BMC Bioinformatics, 2010, 11, 68.	1.2	9
78	Watermarking method with exact self-propagating restoration capabilities. , 2012, , .		9
79	Fast camera fingerprint search algorithm for source camera identification. , 2012, , .		9
80	A compact representation of sensor fingerprint for camera identification and fingerprint matching. , 2015, , .		9
81	Hierarchical Relaxed Partitioning System for Activity Recognition. IEEE Transactions on Cybernetics, 2017, 47, 784-795.	6.2	9
82	PRNU-Based Content Forgery Localization Augmented With Image Segmentation. IEEE Access, 2020, 8, 222645-222659.	2.6	9
83	MIMIC-PPT: Mimicking-Based Steganography for Microsoft Power Point Document. Information Technology Journal, 2008, 7, 654-660.	0.3	9
84	Human gait identification from extremely low-quality videos: an enhanced classifier ensemble method. IET Biometrics, 2014, 3, 84-93.	1.6	8
85	A Multi-Task Learning CNN for Image Steganalysis. , 2018, , .		8
86	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
87	Protection of Mammograms Using Blind Steganography and Watermarking. , 2007, , .		7
88	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
89	Robust gait recognition from extremely low frame-rate videos. , 2013, , .		7
90	Active contours based on weighted gradient vector flow and balloon forces for medical image segmentation. , 2014, , .		7

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91	Hand gesture recognition and spotting in uncontrolled environments based on classifier weighting. , 2015, , .		7
92	Enhanced SVD for Collaborative Filtering. Lecture Notes in Computer Science, 2016, , 503-514.	1.0	7
93	Refining PRNU-based detection of image forgeries. , 2016, , .		7
94	Fusion Network for Face-Based Age Estimation. , 2018, , .		7
95	Manifold learning for user profiling and identity verification using motion sensors. Pattern Recognition, 2020, 106, 107408.	5.1	7
96	Age-Oriented Face Synthesis With Conditional Discriminator Pool and Adversarial Triplet Loss. IEEE Transactions on Image Processing, 2021, 30, 5413-5425.	6.0	7
97	People Identification and Tracking Through Fusion of Facial and Gait Features. Lecture Notes in Computer Science, 2014, , 209-221.	1.0	7
98	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
99	Source camera identification using enhanced sensor pattern noise. , 2009, , .		6
100	An adaptive system for gait recognition in multi-view environments. , 2012, , .		6
101	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
102	Reversible data hiding in JPEG images based on adjustable padding. , 2017, , .		6
103	An HEVC steganalytic approach against motion vector modification using local optimality in candidate list. Pattern Recognition Letters, 2021, 146, 23-30.	2.6	6
104	Steganographic Scheme for VQ Compressed Images Using Progressive Exponential Clustering. , 2006, , .		5
105	Structural Digital Signature and Semi-Fragile Fingerprinting for Image Authentication in Wavelet Domain. , 2007, , .		5
106	Source camera linking using enhanced sensor pattern noise extracted from images. , 2009, , .		5
107	Authentication and recovery of digital images: Potential application in video surveillance and remote sensing. , 2009, , .		5
108	A Conditional Random Field Approach to Unsupervised Texture Image Segmentation. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	5

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109	Building fingerprints with information from three color bands for source camera identification. , 2010, , .		5
110	Fast Detection of Abnormal Events in Videos with Binary Features. , 2018, , .		5
111	Accelerometer Dense Trajectories for Activity Recognition and People Identification. , 2019, , .		5
112	Dronecaps: Recognition Of Human Actions In Drone Videos Using Capsule Networks With Binary Volume Comparisons. , 2020, , .		5
113	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
114	Image segmentation based on a multiresolution Bayesian framework. , 0, , .		4
115	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
116	Unsupervised Clustering of Gene Expression Time Series with Conditional Random Fields. , 2007, , .		4
117	An Improved Algorithm for Camera Model Identification Using Inter-channel Demosaicking Traces. , 2012, , .		4
118	Random subspace method for source camera identification. , 2015, , .		4
119	A fast binary pair-based video descriptor for action recognition. , 2016, , .		4
120	Learning optimised representations for view-invariant gait recognition. , 2017, , .		4
121	Watermarking scheme for authentication of compressed image. , 2003, , .		3
122	Fragile watermarking scheme exploiting non-deterministic block-wise dependency. , 2004, , .		3
123	Fragile watermarking scheme based on the block-wise dependence in the wavelet domain. , 2004, , .		3
124	Learning Pathological Characteristics from User's Relevance Feedback for Content-Based Mammogram Retrieval. , 2006, , .		3
125	CBIR Approach to Building Image Retrieval Based on Linear Edge Distribution. , 2006, , .		3
126	Partial Mixture Model for Tight Clustering in Exploratory Gene Expression Analysis. , 2007, , .		3

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127	Random Index Modulation Based Fragile Watermarking Scheme for Authenticating Colour Images. , 2008, , .		3
128	A reference estimator based on composite sensor pattern noise for source device identification. , 2014, , .		3
129	Gait recognition using low spatial and temporal resolution videos. , 2014, , .		3
130	On Reducing the Effect of Silhouette Quality on Individual Gait Recognition: A Feature Fusion Approach. , 2015, , .		3
131	A Novel Online Bayes Classifier. , 2016, , .		3
132	Fast and robust framework for view-invariant gait recognition. , 2017, , .		3
133	Patch-based segmentation of overlapping cervical cells using active contour with local edge information. , 2017, , .		3
134	Provenance Inference for Instagram Photos Through Device Fingerprinting. IEEE Access, 2020, 8, 168309-168320.	2.6	3
135	Medical Images Authentication through Repetitive Index Modulation Based Watermarking. International Journal of Digital Crime and Forensics, 2009, 1, 32-39.	0.5	3
136	Face Recognition Technologies for Evidential Evaluation of Video Traces. Advances in Computer Vision and Pattern Recognition, 2017, , 177-193.	0.9	3
137	Hand Gesture Segmentation in Uncontrolled Environments with Partition Matrix and a Spotting Scheme Based on Hidden Conditional Random Fields. , 2013, , .		2
138	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
139	Two improved forensic methods of detecting contrast enhancement in digital images. Proceedings of SPIE, 2014, , .	0.8	2
140	End-to-End Correspondence and Relationship Learning of Mid-Level Deep Features for Person Re-Identification. , 2017, , .		2
141	Modelling and developing conflict-aware scheduling on large-scale data centres. Future Generation Computer Systems, 2018, 86, 995-1007.	4.9	2
142	Rotation-invariant Binary Representation of Sensor Pattern Noise for Source-Oriented Image and Video Clustering. , 2018, , .		2
143	Detecting Small Objects in High Resolution Images with Integral Fisher Score. , 2018, , .		2
144	Social Network Forensics through Smartphones and Shared Images. , 2019, , .		2

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145	On Constructing A Better Correlation Predictor For Prnu-Based Image Forgery Localization. , 2021, , .		2
146	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
147	Source Camera Identification Issues. International Journal of Digital Crime and Forensics, 2011, 3, 1-15.	0.5	2
148	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
149	Edge detection based on the multiresolution Fourier transform. , 0, , .		1
150	Protection of Mammograms Using Blind Steganography and Watermarking. , 2007, , .		1
151	A reversible watermarking scheme for 2D engineering graphics based on improved quantisation index modulation. , 2009, , .		1
152	Interaction Based Functional Clustering of Genomic Data. , 2009, , .		1
153	Progressive Exponential Clustering-Based Steganography. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	1
154	Optimized digital library for digital forensic based on Decomposed PRNU. , 2011, , .		1
155	Proactive Digital Forensics: The Ever-Increasing Need for Standardization. , 2012, , .		1
156	Incremental update of feature extractor for camera identification. , 2015, , .		1
157	Secure Secret Sharing in the Cloud. , 2017, , .		1
158	WolfPath: Accelerating Iterative Traversing-Based Graph Processing Algorithms on GPU. International Journal of Parallel Programming, 2019, 47, 644-667.	1.1	1
159	IEEE Access Special Section: Digital Forensics Through Multimedia Source Inference. IEEE Access, 2020, 8, 209657-209659.	2.6	1
160	Medical Images Authentication through Repetitive Index Modulation Based Watermarking. , 0, , 202-209.		1
161	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
162	Using Age Information as a Soft Biometric Trait for Face Image Analysis. Unsupervised and Semi-supervised Learning, 2020, , 1-20.	0.4	1

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163	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
164	Person Re-identification with Soft Biometrics Through Deep Learning. Unsupervised and Semi-supervised Learning, 2020, , 21-36.	0.4	1
165	Delve Into Neural Activations: Toward Understanding Dying Neurons. IEEE Transactions on Artificial Intelligence, 2023, 4, 959-971.	3.4	1
166	Steganographic Method for Colour Image Using Expandable Progressive Exponential Clustering. , 2007, , .		0
167	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
168	A Bayes Random Fields Approach for Integrative Large-Scale Regulatory Network Analysis. Journal of Integrative Bioinformatics, 2008, 5, .	1.0	0
169	Inferring Causal Relations from Multivariate Time Series: A Fast Method for Large-Scale Gene Expression Data. , 2009, , .		0
170	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
171	Gait recognition under carrying condition: a static dynamic fusion method. , 2012, , .		0
172	Robust face recognition with occlusions in both reference and query images. , 2013, , .		0
173	A Framework for Real-Time Hand Gesture Recognition in Uncontrolled Environments with Partition Matrix Model Based on Hidden Conditional Random Fields. , 2013, , .		0
174	The influence of segmentation on individual gait recognition. , 2015, , .		0
175	An adaptive tri-pixel unit steganographic algorithm using the least two significant bits. , 2017, , .		0
176	Active learning in multi-domain collaborative filtering recommender systems. , 2018, , .		0
177	Guest Editorial: Adversarial Deep Learning in Biometrics & Forensics. Computer Vision and Image Understanding, 2021, 208-209, 103227.	3.0	0
178	Oblivious fragile watermarking scheme for image authentication. , 2002, , .		0
179	Protection of Digital Mammograms on PACSs Using Data Hiding Techniques. , 0, , 177-189.		0
180	A Bayes random field approach for integrative large-scale regulatory network analysis. Journal of Integrative Bioinformatics, 2008, 5, .	1.0	0