

Min Wu

List of Publications by Year in descending order

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201
papers

6,646
citations

136950
32
h-index

91884
69
g-index

218
all docs

218
docs citations

218
times ranked

2684
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotation, scale, and translation resilient watermarking for images. IEEE Transactions on Image Processing, 2001, 10, 767-782.	9.8	555
2	Robust and Secure Image Hashing. IEEE Transactions on Information Forensics and Security, 2006, 1, 215-230.	6.9	447
3	Anti-collusion fingerprinting for multimedia. IEEE Transactions on Signal Processing, 2003, 51, 1069-1087.	5.3	365
4	Information Forensics: An Overview of the First Decade. IEEE Access, 2013, 1, 167-200.	4.2	308
5	Data Hiding in Binary Image for Authentication and Annotation. IEEE Transactions on Multimedia, 2004, 6, 528-538.	7.2	299
6	Digital image forensics via intrinsic fingerprints. IEEE Transactions on Information Forensics and Security, 2008, 3, 101-117.	6.9	237
7	Nonintrusive component forensics of visual sensors using output images. IEEE Transactions on Information Forensics and Security, 2007, 2, 91-106.	6.9	214
8	Data hiding in image and video. I. Fundamental issues and solutions. IEEE Transactions on Image Processing, 2003, 12, 685-695.	9.8	168
9	Collusion-resistant fingerprinting for multimedia. IEEE Signal Processing Magazine, 2004, 21, 15-27.	5.6	168
10	Anti-collusion forensics of multimedia fingerprinting using orthogonal modulation. IEEE Transactions on Image Processing, 2005, 14, 804-821.	9.8	142
11	Forensic analysis of nonlinear collusion attacks for multimedia fingerprinting. IEEE Transactions on Image Processing, 2005, 14, 646-661.	9.8	134
12	Watermarking for image authentication. , 0, , .		117
13	Confidentiality-preserving rank-ordered search. , 2007, , .		117
14	A joint signal processing and cryptographic approach to multimedia encryption. IEEE Transactions on Image Processing, 2006, 15, 2061-2075.	9.8	107
15	Data hiding in digital binary image. , 0, , .		100
16	Secure image retrieval through feature protection. , 2009, , .		93
17	Joint Coding and Embedding Techniques for Multimedia Fingerprinting. IEEE Transactions on Information Forensics and Security, 2006, 1, 231-247.	6.9	84
18	â€œSeeingâ€•ENF: Power-Signature-Based Timestamp for Digital Multimedia via Optical Sensing and Signal Processing. IEEE Transactions on Information Forensics and Security, 2013, 8, 1417-1432.	6.9	81

#	ARTICLE	IF	CITATIONS
19	SMARS: Sleep Monitoring via Ambient Radio Signals. IEEE Transactions on Mobile Computing, 2021, 20, 217-231.	5.8	79
20	Data hiding in image and video. II. Designs and applications. IEEE Transactions on Image Processing, 2003, 12, 696-705.	9.8	78
21	Tracing Malicious Relays in Cooperative Wireless Communications. IEEE Transactions on Information Forensics and Security, 2007, 2, 198-212.	6.9	75
22	Confidentiality-Preserving Image Search: A Comparative Study Between Homomorphic Encryption and Distance-Preserving Randomization. IEEE Access, 2014, 2, 125-141.	4.2	70
23	An Efficient Gradient Descent Approach to Secure Localization in Resource Constrained Wireless Sensor Networks. IEEE Transactions on Information Forensics and Security, 2012, 7, 717-730.	6.9	67
24	Collaborative Image Coding and Transmission over Wireless Sensor Networks. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	64
25	Noise Features for Image Tampering Detection and Steganalysis. , 2007, , .		64
26	Group-Oriented Fingerprinting for Multimedia Forensics. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	60
27	Intrinsic Sensor Noise Features for Forensic Analysis on Scanners and Scanned Images. IEEE Transactions on Information Forensics and Security, 2009, 4, 476-491.	6.9	59
28	"Seeing" ENF. , 2011, , .		57
29	ENF-Based Region-of-Recording Identification for Media Signals. IEEE Transactions on Information Forensics and Security, 2015, 10, 1125-1136.	6.9	56
30	Robust scanner identification based on noise features. , 2007, , .		53
31	Spectrum Combining for ENF Signal Estimation. IEEE Signal Processing Letters, 2013, 20, 885-888.	3.6	53
32	Multimedia forensic hash based on visual words. , 2010, , .		50
33	Dynamic resource allocation via video content and short-term traffic statistics. IEEE Transactions on Multimedia, 2001, 3, 186-199.	7.2	46
34	Joint security and robustness enhancement for quantization based data embedding. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 831-841.	8.3	46
35	JET: Dynamic Join-Exit-Tree Amortization and Scheduling for Contributory Key Management. IEEE/ACM Transactions on Networking, 2006, 14, 1128-1140.	3.8	46
36	Unicity Distance of Robust Image Hashing. IEEE Transactions on Information Forensics and Security, 2007, 2, 462-467.	6.9	44

#	ARTICLE	IF	CITATIONS
37	A Scalable Multiuser Framework for Video Over OFDM Networks: Fairness and Efficiency. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 1217-1231.	8.3	43
38	Exploring compression effects for improved source camera identification using strongly compressed video. , 2011, , .		39
39	Image acquisition forensics: Forensic analysis to identify imaging source. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	38
40	Data hiding in curves with application to fingerprinting maps. IEEE Transactions on Signal Processing, 2005, 53, 3988-4005.	5.3	37
41	Security analysis for privacy preserving search of multimedia. , 2010, , .		37
42	Geo-location estimation from Electrical Network Frequency signals. , 2013, , .		37
43	MPEG recompression detection based on block artifacts. Proceedings of SPIE, 2008, , .	0.8	35
44	Efficient bandwidth resource allocation for low-delay multiuser video streaming. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1124-1137.	8.3	33
45	Video transcoding by reducing spatial resolution. , 0, , .		32
46	<title>Multi-level data hiding for digital image and video</title>. , 1999, 3845, 10.		31
47	Modeling and analysis of Electric Network Frequency signal for timestamp verification. , 2012, , .		31
48	Exploiting rolling shutter for ENF signal extraction from video. , 2014, , .		31
49	Non-Intrusive Forensic Analysis of Visual Sensors Using Output Images. , 2006, , .		30
50	Collusion-Resistant Video Fingerprinting for Large User Group. IEEE Transactions on Information Forensics and Security, 2007, 2, 697-709.	6.9	30
51	Image Tampering Identification using Blind Deconvolution. , 2006, , .		29
52	Forensic hash for multimedia information. , 2010, , .		29
53	Exploiting Power Signatures for Camera Forensics. IEEE Signal Processing Letters, 2016, 23, 713-717.	3.6	29
54	Collusion-resistant fingerprinting for multimedia. , 2002, , .		28

#	ARTICLE	IF	CITATIONS
55	Security evaluation for communication-friendly encryption of multimedia. , 0, , .		28
56	Joint Uplink and Downlink Optimization for Real-Time Multiuser Video Streaming Over WLANs. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 280-294.	10.8	28
57	Component forensics. IEEE Signal Processing Magazine, 2009, 26, 38-48.	5.6	27
58	Component Forensics of Digital Cameras: A Non-Intrusive Approach. , 2006, , .		26
59	Tampering identification using Empirical Frequency Response. , 2009, , .		26
60	Factors Affecting ENF Capture in Audio. IEEE Transactions on Information Forensics and Security, 2019, 14, 277-288.	6.9	26
61	An algorithm for wipe detection. , 0, , .		25
62	Coordinated sensor deployment for improving secure communications and sensing coverage. , 2005, , .		25
63	Anti-Forensics and Countermeasures of Electrical Network Frequency Analysis. IEEE Transactions on Information Forensics and Security, 2013, 8, 2073-2088.	6.9	25
64	Learning Your Heart Actions From Pulse: ECG Waveform Reconstruction From PPG. IEEE Internet of Things Journal, 2021, 8, 16734-16748.	8.7	24
65	A decision theoretic framework for analyzing binary hash-based content identification systems. , 2008, , .		24
66	Exploring the use of ENF for multimedia synchronization. , 2014, , .		23
67	Indoor Events Monitoring Using Channel State Information Time Series. IEEE Internet of Things Journal, 2019, 6, 4977-4990.	8.7	23
68	Adaptive Multi-Trace Carving for Robust Frequency Tracking in Forensic Applications. IEEE Transactions on Information Forensics and Security, 2021, 16, 1174-1189.	6.9	23
69	Driver Authentication for Smart Car Using Wireless Sensing. IEEE Internet of Things Journal, 2020, 7, 2235-2246.	8.7	22
70	ENF Signal Induced by Power Grid. , 2014, , .		21
71	PulseEdit: Editing Physiological Signals in Facial Videos for Privacy Protection. IEEE Transactions on Information Forensics and Security, 2022, 17, 457-471.	6.9	21
72	Image hashing resilient to geometric and filtering operations. , 0, , .		20

#	ARTICLE	IF	CITATIONS
73	Gradient descent approach for secure localization in resource constrained wireless sensor networks. , 2010, , .		20
74	Modeling and Analysis of Correlated Binary Fingerprints for Content Identification. IEEE Transactions on Information Forensics and Security, 2011, 6, 1146-1159.	6.9	20
75	Seam carving estimation using forensic hash. , 2011, , .		20
76	Counterfeit Detection Based on Unclonable Feature of Paper Using Mobile Camera. IEEE Transactions on Information Forensics and Security, 2017, 12, 1885-1899.	6.9	20
77	ECG Reconstruction via PPG: A Pilot Study. , 2019, , .		20
78	<i>mmWrite</i> : Passive Handwriting Tracking Using a Single Millimeter-Wave Radio. IEEE Internet of Things Journal, 2021, 8, 13291-13305.	8.7	20
79	Digital watermarking using shuffling. , 0, , .		19
80	ENF analysis on recaptured audio recordings. , 2013, , .		18
81	Communication-friendly encryption of multimedia. , 0, , .		17
82	Protect Your Deep Neural Networks from Piracy. , 2018, , .		17
83	Resistance of orthogonal Gaussian fingerprints to collusion attacks. , 2003, , .		16
84	Fitness heart rate measurement using face videos. , 2017, , .		16
85	Invisible Geo-Location Signature in A Single Image. , 2018, , .		16
86	What can we reasonably expect from watermarks?. , 0, , .		15
87	Nonlinear collusion attacks on independent fingerprints for multimedia. , 2003, , .		15
88	Multiuser cross-layer resource allocation for video transmission over wireless networks. IEEE Network, 2006, 20, 21-27.	6.9	15
89	A Signal Processing and Randomization Perspective of Robust and Secure Image Hashing. , 2007, , .		15
90	Counterfeit detection using paper PUF and mobile cameras. , 2015, , .		15

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91	Fast and Stable Signal Deconvolution via Compressible State-Space Models. IEEE Transactions on Biomedical Engineering, 2018, 65, 74-86.	4.2	14
92	Respiratory Rate Estimation from Face Videos. , 2019, , .		14
93	Cross-Domain Joint Dictionary Learning for ECG Reconstruction from PPG. , 2020, , .		14
94	Dynamic join-exit amortization and scheduling for time-efficient group key agreement. , 2004, , .		13
95	High-Fidelity Data Embedding for Image Annotation. IEEE Transactions on Image Processing, 2009, 18, 429-435.	9.8	13
96	Flicker Forensics for Camcorder Piracy. IEEE Transactions on Information Forensics and Security, 2017, 12, 89-100.	6.9	13
97	Resistance of orthogonal Gaussian fingerprints to collusion attacks. , 2003, , .		12
98	Secure video processing: Problems and challenges. , 2011, , .		12
99	How secure are power network signature based time stamps?. , 2012, , .		12
100	ENF based location classification of sensor recordings. , 2013, , .		12
101	Adaptive Multi-Trace Carving Based on Dynamic Programming. , 2018, , .		12
102	Robust error-resilient approach for MPEG video transmission over Internet. , 2002, , .		11
103	Classification-Based Spatial Error Concealment for Visual Communications. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	11
104	Modeling and analysis of content identification. , 2009, , .		11
105	Attacks on digital watermarks. , 0, , .		10
106	Security of Feature Extraction in Image Hashing. , 0, , .		10
107	Modulation Model of the Photoplethysmography Signal for Vital Sign Extraction. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 969-977.	6.3	10
108	<title>Modulation and multiplexing techniques for multimedia data hiding</title>. , 2001, , .		9

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109	Handling uneven embedding capacity in binary images: a revisit. , 2005, , .		9
110	Exploring QIM-based anti-collusion fingerprinting for multimedia. , 2006, , .		9
111	Optimization of Input Pattern for Semi Non-Intrusive Component Forensics of Digital Cameras. , 2007, , .		9
112	Fingerprinting Compressed Multimedia Signals. IEEE Transactions on Information Forensics and Security, 2009, 4, 330-345.	6.9	9
113	Security Issues in Cooperative Communications: Tracing Adversarial Relays. , 0, , .		8
114	Robust Estimation of Self-Exciting Generalized Linear Models With Application to Neuronal Modeling. IEEE Transactions on Signal Processing, 2017, 65, 3733-3748.	5.3	8
115	A Multi-Channel Ratio-of-Ratios Method for Noncontact Hand Video Based SpO ₂ Monitoring Using Smartphone Cameras. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 197-207.	10.8	8
116	Analysis of attacks on SDMI audio watermarks. , 0, , .		7
117	Data hiding in curves for collusion-resistant digital fingerprinting. , 0, , .		7
118	A Study on PUF characteristics for counterfeit detection. , 2015, , .		7
119	Impact Analysis of Baseband Quantizer on Coding Efficiency for HDR Video. IEEE Signal Processing Letters, 2016, 23, 1354-1358.	3.6	7
120	Sampling Requirements for Stable Autoregressive Estimation. IEEE Transactions on Signal Processing, 2017, 65, 2333-2347.	5.3	7
121	The computer for the 21st century: present security & privacy challenges. Journal of Internet Services and Applications, 2018, 9, .	2.1	7
122	Improving Collusion Resistance of Error Correcting Code Based Multimedia Fingerprinting. , 0, , .		6
123	Adaptive Detection for Group-Based Multimedia Fingerprinting. IEEE Signal Processing Letters, 2007, 14, 964-967.	3.6	6
124	Handwriting Tracking using 60 GHz mmWave Radar. , 2020, , .		6
125	Collusion-resistant fingerprinting for multimedia. , 2002, , .		6
126	Performance Study on Multimedia Fingerprinting Employing Traceability Codes. Lecture Notes in Computer Science, 2005, , 84-96.	1.3	5

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127	Multiuser distortion management of layered video over resource limited downlink multicode-CDMA. IEEE Transactions on Wireless Communications, 2006, 5, 3056-3067.	9.2	5
128	A pattern classification framework for theoretical analysis of component forensics. , 2008, , .		5
129	Modeling content fingerprints using markov random fields. , 2009, , .		5
130	Enhanced Geometric Reflection Models for Paper Surface Based Authentication. , 2018, , .		5
131	Anti-collusion codes: multi-user and multimedia perspectives. , 2002, , .		4
132	Joint Uplink and Downlink Optimization for Video Conferencing over Wireless LAN. , 0, , .		4
133	Collusion-Resistant video Fingerprinting for Large User Group. , 2006, , .		4
134	A Component Estimation Framework for Information Forensics. , 2007, , .		4
135	A gradient descent based approach to secure localization in mobile sensor networks. , 2012, , .		4
136	Detecting Essential Landmarks Directly in Thermal Images for Remote Body Temperature and Respiratory Rate Measurement With a Two-Phase System. IEEE Access, 2022, 10, 39080-39094.	4.2	4
137	Video access control via multi-level data hiding. , 0, , .		3
138	Anti-collusion of group-oriented fingerprinting. , 2003, , .		3
139	Collusion-resistant multimedia fingerprinting: a unified framework. , 2004, 5306, 748.		3
140	Group-based joint coding and embedding technique for multimedia fingerprinting. , 2005, , .		3
141	Collusion-Resistant Fingerprinting for Compressed Multimedia Signals. , 2007, , .		3
142	Dynamic Resource Allocation for Robust Distributed Multi-Point Video Conferencing. IEEE Transactions on Multimedia, 2008, 10, 910-925.	7.2	3
143	Sparse estimation of self-exciting point processes with application to LGN neural modeling. , 2014, , .		3
144	Proof-Carrying Sensing. , 2017, , .		3

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145	The Impact of Exposure Settings in Digital Image Forensics. , 2018, , .		3
146	In-Car Driver Authentication Using Wireless Sensing. , 2019, , .		3
147	Data Hiding in Binary Image. , 2003, , 65-91.		3
148	Power Signature for Multimedia Forensics. Advances in Computer Vision and Pattern Recognition, 2022, , 235-280.	1.3	3
149	Invisible Geolocation Signature Extraction From a Single Image. IEEE Transactions on Information Forensics and Security, 2022, 17, 2598-2613.	6.9	3
150	Dynamic resource allocation via video content and short-term traffic statistics. , 0, , .		2
151	Performance of detection statistics under collusion attacks on independent multimedia fingerprints. , 2003, , .		2
152	Efficient bandwidth resource allocation for low-delay multiuser MPEG-4 video transmission. , 2004, , .		2
153	Dynamic distortion control for 3-D embedded wavelet video over multiuser OFDM networks. , 2004, , .		2
154	Distortion management of real-time MPEG-4 video over downlink multicode CDMA networks. , 2004, , .		2
155	Cross-Path PDMA-Based Error Protection for Streaming Multiuser Video over Multiple Paths. , 2006, , .		2
156	Analysis of Nonlinear Collusion Attacks on Fingerprinting Systems for Compressed Multimedia. , 2007, , .		2
157	Modeling and analysis of ordinal ranking in content fingerprinting. , 2009, , .		2
158	A framework for theoretical analysis of content fingerprinting. Proceedings of SPIE, 2010, , .	0.8	2
159	Semi non-intrusive training for cell-phone camera model linkage. , 2010, , .		2
160	Reduced-reference quality assessment for retargeted images. , 2012, , .		2
161	Sharing Signal Processing with the World [From the Editor]. IEEE Signal Processing Magazine, 2015, 32, 4-4.	5.6	2
162	Efficient estimation of compressible state-space models with application to calcium signal deconvolution. , 2016, , .		2

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163	Location Signatures That You Don't See: Highlights from the IEEE Signal Processing Cup 2016 Student Competition [SP Education]. IEEE Signal Processing Magazine, 2016, 33, 149-156.	5.6	2
164	Multiplicative updates for optimization problems with dynamics. , 2017, , .		2
165	Robustness of Color Interpolation Identification against Anti-forensic Operations. Lecture Notes in Computer Science, 2013, , 16-30.	1.3	2
166	A recognition algorithm for Chinese characters in diverse fonts. , 0, , .		1
167	Nonlinear collusion attacks on independent fingerprints for multimedia. , 2003, , .		1
168	Distortion compensated lookup-table embedding: joint security and robustness enhancement for quantization-based data hiding. , 2004, , .		1
169	Robust Digital Fingerprinting for Curves. , 0, , .		1
170	An interactive and team approach to multimedia design curriculum. IEEE Signal Processing Magazine, 2005, 22, 14-19.	5.6	1
171	Robust Distributed Multi-Point Video Conferencing Over Error-Prone Channels. , 2006, , .		1
172	Colluding Fingerprinted Video using the Gradient Attack. , 2007, , .		1
173	Collusion-Resistant Dynamic Fingerprinting for Multimedia. , 2007, , .		1
174	Intrinsic fingerprints for image authentication and steganalysis. , 2007, , .		1
175	Performance impact of ordinal ranking on content fingerprinting. , 2010, , .		1
176	Evaluating the quality of individual SIFT features. , 2012, , .		1
177	Taking Up the Torch [From the Editor]. IEEE Signal Processing Magazine, 2015, 32, 4-6.	5.6	1
178	Sufficient conditions for stable recovery of sparse autoregressive models. , 2016, , .		1
179	Women in Science, Engineering, and Signal Processing [From the Editor]. IEEE Signal Processing Magazine, 2016, 33, 4-4.	5.6	1
180	Tackling Android Stego Apps in the Wild. , 2018, , .		1

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181	Exploiting Micro-Signals for Physiological Forensics. , 2020, , .		1
182	Fingerprinting digital elevation maps. , 2006, , .		0
183	A window to the SP community [From the Editor]. IEEE Signal Processing Magazine, 2008, 25, 2-4.	5.6	0
184	Extended abstract: A hardware-assisted data hiding based approach in building high performance secure execution systems. , 2008, , .		0
185	Picturing signal processing [From the Editor. IEEE Signal Processing Magazine, 2010, 27, 2-3.	5.6	0
186	Modeling temporal correlations in content fingerprints. , 2011, , .		0
187	Introduction to Multimedia Signal Processing. Academic Press Library in Signal Processing, 2014, 5, 325-326.	0.8	0
188	Art, Engineering, and Community [From the Editor]. IEEE Signal Processing Magazine, 2015, 32, 4-4.	5.6	0
189	Impact Beyond Numbers [From the Editor]. IEEE Signal Processing Magazine, 2015, 32, 4-4.	5.6	0
190	Engaging Undergraduate Students [From the Editor]. IEEE Signal Processing Magazine, 2015, 32, 4-4.	5.6	0
191	Journey of Learning [From the Editor]. IEEE Signal Processing Magazine, 2016, 33, 3-3.	5.6	0
192	Silk Road in the New Millennium From the Editor. IEEE Signal Processing Magazine, 2016, 33, 3-3.	5.6	0
193	New Season, New Look [From the Editor]. IEEE Signal Processing Magazine, 2016, 33, 3-3.	5.6	0
194	Signal Processing: The Expected and the Unexpected [From the Editor]. IEEE Signal Processing Magazine, 2017, 34, 3-3.	5.6	0
195	A Conversation About Signal Processing at Elementary School [From the Editor]. IEEE Signal Processing Magazine, 2017, 34, 3-4.	5.6	0
196	What Do You Consider a Successful Career? : Perspectives from signal processing-trained professionals [Community Voices]. IEEE Signal Processing Magazine, 2017, 34, 10-12.	5.6	0
197	What Is the Future of Signal Processing?: Views Across Our Community [Community Voices]. IEEE Signal Processing Magazine, 2017, 34, 14-25.	5.6	0
198	Content Ecosystem: Serving Diverse Interests in Our Community [From the Editor]. IEEE Signal Processing Magazine, 2017, 34, 3-13.	5.6	0

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199	Innovations Powered by Signal Processing [From the Editor]. IEEE Signal Processing Magazine, 2017, 34, 3-9.	5.6	0
200	Real-Time Indoor Event Monitoring Using CSI Time Series. , 2018, , .		0
201	Video Security and Protection. , 2009, , 527-570.		0