Prakash Ishwar

List of Publications by Year
in descending order

104 papers	3,686 citations	471371 17 h-index	377752 34 g-index
104 all docs	104 docs citations	104 times ranked	2824 citing authors

#	Article	IF	Citations
1	Changedetection.net: A new change detection benchmark dataset. , 2012, , .		535
2	CDnet 2014: An Expanded Change Detection Benchmark Dataset. , 2014, , .		531
3	On Compressing Encrypted Data. IEEE Transactions on Signal Processing, 2004, 52, 2992-3006.	3.2	235
4	Big Social Data Analytics in Journalism and Mass Communication. Journalism and Mass Communication Quarterly, 2016, 93, 332-359.	1.4	144
5	Distributed video coding in wireless sensor networks. IEEE Signal Processing Magazine, 2006, 23, 94-106.	4.6	112
6	Action Recognition From Video Using Feature Covariance Matrices. IEEE Transactions on Image Processing, 2013, 22, 2479-2494.	6.0	110
7	Action Recognition Using Sparse Representation on Covariance Manifolds of Optical Flow. , 2010, , .		105
8	2D-to-3D image conversion by learning depth from examples. , 2012, , .		100
9	On rate-constrained distributed estimation in unreliable sensor networks. IEEE Journal on Selected Areas in Communications, 2005, 23, 765-775.	9.7	84
10	A gesture-driven computer interface using Kinect. , 2012, , .		83
11	Learning-Based, Automatic 2D-to-3D Image and Video Conversion. IEEE Transactions on Image Processing, 2013, 22, 3485-3496.	6.0	77
12	Secure Biometrics: Concepts, Authentication Architectures, and Challenges. IEEE Signal Processing Magazine, 2013, 30, 51-64.	4.6	76
13	BSUV-Net: A Fully-Convolutional Neural Network for Background Subtraction of Unseen Videos. , 2020, , .		75
14	Some Results on Distributed Source Coding for Interactive Function Computation. IEEE Transactions on Information Theory, 2011, 57, 6180-6195.	1.5	73
15	A Novel Video Dataset for Change Detection Benchmarking. IEEE Transactions on Image Processing, 2014, 23, 4663-4679.	6.0	73
16	VGAN-Based Image Representation Learning for Privacy-Preserving Facial Expression Recognition. , 2018, , .		70
17	Image saliency: From intrinsic to extrinsic context. , 2011, , .		64
18	Distributed Sampling for Dense Sensor Networks: A â€œBit-Conservation Principleâ€. Lecture Notes in Computer Science, 2003, , 17-31.	1.0	61

#	Article	IF	Citations
19	BSUV-Net 2.0: Spatio-Temporal Data Augmentations for Video-Agnostic Supervised Background Subtraction. IEEE Access, 2021, 9, 53849-53860.	2.6	57
20	Video Condensation by Ribbon Carving. IEEE Transactions on Image Processing, 2009, 18, 2572-2583.	6.0	55
21	Dynamic time warping for gesture-based user identification and authentication with Kinect. , 2013, , .		43
22	On privacy-utility tradeoffs for constrained data release mechanisms. , 2016, , .		42
23	A Theoretical Analysis of Authentication, Privacy, and Reusability Across Secure Biometric Systems. IEEE Transactions on Information Forensics and Security, 2012, 7, 1825-1840.	4.5	41
24	Interactive Source Coding for Function Computation in Collocated Networks. IEEE Transactions on Information Theory, 2012, 58, 4289-4305.	1.5	39
25	Towards a theory for video coding using distributed compression principles. , 0, , .		36
26	Towards privacy-preserving activity recognition using extremely low temporal and spatial resolution cameras. , 2015, , .		33
27	Two-Stream CNNs for Gesture-Based Verification and Identification: Learning User Style. , 2016, , .		32
28	Semi-Coupled Two-Stream Fusion ConvNets for Action Recognition at Extremely Low Resolutions. , 2017, , .		32
29	Privacy-Preserving Adversarial Networks. , 2019, , .		32
30	Estimating head pose orientation using extremely low resolution images. , 2016, , .		31
31	Supervised People Counting Using An Overhead Fisheye Camera. , 2019, , .		30
32	On distributed sampling of smooth non-bandlimited fields. , 2004, , .		29
33	On Delayed Sequential Coding of Correlated Sources. IEEE Transactions on Information Theory, 2011, 57, 3763-3782.	1.5	28
34	Information-theoretic bounds for multiround function computation in collocated networks. , 2009, , .		27
35	High-Resolution Distributed Sampling of Bandlimited Fields With Low-Precision Sensors. IEEE Transactions on Information Theory, 2011, 57, 476-492.	1.5	25
36	The Infinite-Message Limit of Two-Terminal Interactive Source Coding. IEEE Transactions on Information Theory, 2013, 59, 4071-4094.	1.5	24

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37	Towards privacy-preserving recognition of human activities. , 2015, , .		24
38	Towards Gesture-Based User Authentication. , 2012, , .		22
39	Action Recognition in Video by Covariance Matching of Silhouette Tunnels. , 2009, , .		20
40	Leveraging shape and depth in user authentication from in-air hand gestures. , 2015, , .		18
41	On the Existence and Characterization of the Maxent Distribution Under General Moment Inequality Constraints. IEEE Transactions on Information Theory, 2005, 51, 3322-3333.	1.5	17
42	Learning-Based Object Identification and Segmentation Using Dual-Energy CT Images for Security. IEEE Transactions on Image Processing, 2015, 24, 4069-4081.	6.0	16
43	Emerging NUI-Based Methods for User Authentication: A New Taxonomy and Survey. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2019, 1, 5-31.	3.8	15
44	On the equivalence of set-theoretic and maxent MAP estimation. IEEE Transactions on Signal Processing, 2003, 51, 698-713.	3.2	13
45	Fundamental Data Retention Limits in SRAM Standby Experimental Results. , 2008, , .		12
46	Two-terminal distributed source coding with alternating messages for function computation. , 2008, , .		12
47	Action Recognition in Video by Sparse Representation on Covariance Manifolds of Silhouette Tunnels. Lecture Notes in Computer Science, 2010, , 294-305.	1.0	12
48	The Value of Multiple Viewpoints in Gesture-Based User Authentication. , 2014, , .		12
49	The value of posture, build and dynamics in gesture-based user authentication. , 2014, , .		12
50	Multimodal Neural and Behavioral Data Predict Response to Rehabilitation in Chronic Poststroke Aphasia. Stroke, 2022, 53, 1606-1614.	1.0	12
51	One-Bit Distributed Sensing and Coding for Field Estimation in Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 4433-4445.	3.2	11
52	Distributed Field Estimation With Randomly Deployed, Noisy, Binary Sensors. IEEE Transactions on Signal Processing, 2009, 57, 1177-1189.	3.2	11
53	A relay-assisted distributed source coding problem. , 2008, , .		10
54	Silhouettes versus skeletons in gesture-based authentication with Kinect. , 2014, , .		10

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55	WEPDTOF: A Dataset and Benchmark Algorithms for In-the-Wild People Detection and Tracking from Overhead Fisheye Cameras. , 2022, , .		10
56	Infinite-message distributed source coding for two-terminal interactive computing. , 2009, , .		9
57	Action change detection in video by covariance matching of silhouette tunnels. , 2010, , .		9
58	Dithered A/D Conversion of Smooth Non-Bandlimited Signals. IEEE Transactions on Signal Processing, 2010, 58, 2654-2666.	3.2	9
59	Accurate, Fast, But Not Always Cheap: Evaluating â€œCrowdcodingâ€•as an Alternative Approach to Analyze Social Media Data. Journalism and Mass Communication Quarterly, 2020, 97, 811-834.	1.4	9
60	Privacy-preserving, indoor occupant localization using a network of single-pixel sensors. , 2016, , .		8
61	Node Embedding via Word Embedding for Network Community Discovery. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 539-552.	1.6	8
62	On decoder-latency versus performance tradeoffs in differential predictive coding. , 0, , .		7
63	Error-Tolerant SRAM Design for Ultra-Low Power Standby Operation. , 2008, , .		7
64	Interaction strictly improves the Wyner-Ziv rate-distortion function. , 2010, , .		7
65	On unconditionally secure multi-party sampling from scratch1. , 2011, , .		7
66	Privacy-Preserving Indoor Localization via Active Scene Illumination. , 2018, , .		7
67	On spatial adaptation of motion-field smoothness in video coding. IEEE Transactions on Circuits and Systems for Video Technology, 2000, 10, 980-989.	5.6	6
68	Delayed Sequential Coding of Correlated Sources. , 2007, , .		6
69	Field Estimation From Randomly Located Binary Noisy Sensors. IEEE Transactions on Information Theory, 2009, 55, 5197-5210.	1.5	6
70	Most large topic models are approximately separable. , 2015, , .		6
71	A learning-based approach to explosives detection using Multi-Energy X-Ray Computed Tomography. , 2011, , .		5
72	Privacy-preserving indoor localization via light transport analysis. , 2017, , .		5

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73	On Non-Parametric Field Estimation using Randomly Deployed, Noisy, Binary Sensors. , 2007, , .		4
74	An information-theoretic analysis of revocability and reusability in secure biometrics. , 2011, , .		4
75	Node embedding for network community discovery. , 2017, , .		4
76	When Less is Better. , 2018, , .		4
77	CNN-Based Indoor Occupant Localization via Active Scene Illumination. , 2019, , .		4
78	Bootstrapped oblivious transfer and secure two-party function computation. , 2009, , .		3
79	Classification-aware dimensionality reduction methods for explosives detection using multi-energy x-ray computed tomography. Proceedings of SPIE, 2011, , .	0.8	3
80	Erratum to "On Delayed Sequential Coding of Correlated Sources" [Jun 11 3763-3782]. IEEE Transactions on Information Theory, 2012, 58, 4074-4074.	1.5	3
81	A new geometric approach to latent topic modeling and discovery. , 2013, , .		3
82	An Exploration of Machine Learning Methods for Predicting Post-stroke Aphasia Recovery. , 2021, , .		3
83	The Value of Frame-Delays in the Sequential Coding of Correlated Sources. , 2007, , .		2
84	Two-Stream CNNs for Gesture-Based Verification and Identification: Learning User Style. Advances in Computer Vision and Pattern Recognition, 2017, , 159-182.	0.9	2
85	On methods for privacy-preserving energy disaggregation. , 2017, , .		2
86	Vae/Wgan-Based Image Representation Learning For Pose-Preserving Seamless Identity Replacement In Facial Images. , 2019, , .		2
87	Benefit of Delay on the Diversity-Multiplexing Tradeoffs of MIMO Channels with Partial CSI. , 2007, , .		1
88	Sensing-aware classification with high-dimensional data. , 2011, , .		1
89	Sensing aware dimensionality reduction for nearest neighbor classification of high dimensional signals. , 2012, , .		1
90	On unconditionally secure multiparty computation for realizing correlated equilibria in games. , 2013, , .		1

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91	Information-theoretically secure three-party computation with One corrupted party. , 2013, , .		1
92	Joint metal artifact reduction and material discrimination in X-ray CT using a learning-based graph-cut method. , 2014, , .		1
93	Structure-preserving dual-energy CT for luggage screening. , 2014, , .		1
94	Learning shared rankings from mixtures of noisy pairwise comparisons. , 2015, , .		1
95	A Provably Efficient Algorithm for Separable Topic Discovery. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 712-725.	7.3	1
96	On Source Encoding with Side-information Under Ambiguous State of Nature. , 2006, , .		0
97	Infinite-message interactive function computation in collocated networks. , 2010, , .		0
98	On unconditionally secure computation with vanishing communication cost. , 2010, , .		0
99	Coherent image selection using a fast approximation to the generalized traveling salesman problem. , 2012, , .		0
100	Dynamic topic discovery through sequential projections. , 2013, , .		0
101	An elementary completeness proof for secure two-party computation primitives. , 2014, , .		0
102	Sensing-aware kernel SVM. , 2014, , .		0
103	Collaborative Privacy for Web Applications. , 2019, , .		0
104	Distributed Field Estimation with One–bit Sensors. , 2008, , 137-158.		0