

Terrance E Boulton

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

5,099
citations

304368

22
h-index

243296

44
g-index

126
all docs

126
docs citations

126
times ranked

2690
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Open Set Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1757-1772.	9.7	759
2	Towards Open Set Deep Networks. , 2016, , .		704
3	Probability Models for Open Set Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2317-2324.	9.7	365
4	Towards Open World Recognition. , 2015, , .		295
5	Separation of Reflection Components Using Color and Polarization. International Journal of Computer Vision, 1997, 21, 163-186.	10.9	283
6	Cracking Fuzzy Vaults and Biometric Encryption. , 2007, , .		203
7	The Extreme Value Machine. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 762-768.	9.7	188
8	Multi-class Open Set Recognition Using Probability of Inclusion. Lecture Notes in Computer Science, 2014, , 393-409.	1.0	186
9	Vision of the unseen. ACM Computing Surveys, 2011, 43, 1-42.	16.1	173
10	Meta-Recognition: The Theory and Practice of Recognition Score Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1689-1695.	9.7	155
11	Adversarial Diversity and Hard Positive Generation. , 2016, , .		143
12	MOON: A Mixed Objective Optimization Network for the Recognition of Facial Attributes. Lecture Notes in Computer Science, 2016, , 19-35.	1.0	97
13	A Survey of Stealth Malware Attacks, Mitigation Measures, and Steps Toward Autonomous Open World Solutions. IEEE Communications Surveys and Tutorials, 2017, 19, 1145-1172.	24.8	96
14	Programmable Imaging: Towards a Flexible Camera. International Journal of Computer Vision, 2006, 70, 7-22.	10.9	72
15	The Overlooked Elephant of Object Detection: Open Set. , 2020, , .		70
16	Omni-directional visual surveillance. Image and Vision Computing, 2004, 22, 515-534.	2.7	68
17	Efficient super-resolution via image warping. Image and Vision Computing, 2000, 18, 761-771.	2.7	66
18	Learning and the Unknown: Surveying Steps toward Open World Recognition. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9801-9807.	3.6	64

#	ARTICLE	IF	CITATIONS
19	Sudden illumination change detection using order consistency. Image and Vision Computing, 2004, 22, 117-125.	2.7	55
20	Application of Projective Invariants in Hand Geometry Biometrics. IEEE Transactions on Information Forensics and Security, 2007, 2, 758-768.	4.5	53
21	A novel approach to medical image compression. International Journal of Bioinformatics Research and Applications, 2006, 2, 89.	0.1	42
22	Toward Open-Set Face Recognition. , 2017, , .		38
23	Analyzing skewed symmetries. International Journal of Computer Vision, 1994, 13, 91-111.	10.9	37
24	Robust Fusion: Extreme Value Theory for Recognition Score Normalization. Lecture Notes in Computer Science, 2010, , 481-495.	1.0	35
25	Facial attributes: Accuracy and adversarial robustness. Pattern Recognition Letters, 2019, 124, 100-108.	2.6	33
26	Recovery of SHGCs from a single intensity view. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 161-180.	9.7	28
27	Fusing with context: A Bayesian approach to combining descriptive attributes. , 2011, , .		27
28	Incremental Open Set Intrusion Recognition Using Extreme Value Machine. , 2017, , .		27
29	Separable image warping with spatial lookup tables. Computer Graphics, 1989, 23, 369-378.	0.1	27
30	Assessing Threat of Adversarial Examples on Deep Neural Networks. , 2016, , .		25
31	Good recognition is non-metric. Pattern Recognition, 2014, 47, 2721-2731.	5.1	24
32	Are Accuracy and Robustness Correlated. , 2016, , .		24
33	Are facial attributes adversarially robust?. , 2016, , .		24
34	Local Image Reconstruction and Subpixel Restoration Algorithms. Graphical Models, 1993, 55, 63-77.	0.7	20
35	Animal recognition in the Mojave Desert: Vision tools for field biologists. , 2013, , .		20
36	Learning for Meta-Recognition. IEEE Transactions on Information Forensics and Security, 2012, 7, 1214-1224.	4.5	18

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37	Performance Measurement and Interference Profiling in Multi-tenant Clouds. , 2015, , .		18
38	Open set intrusion recognition for fine-grained attack categorization. , 2017, , .		18
39	Towards Robust Deep Neural Networks with BANG. , 2018, , .		18
40	G-neighbors. , 1993, , .		17
41	Secure voice-based authentication for mobile devices: vaulted voice verification. Proceedings of SPIE, 2013, , .	0.8	17
42	A new model for the recovery of cylindrical structures from medical image data. Lecture Notes in Computer Science, 1997, , 223-232.	1.0	15
43	Large scale unconstrained open set face database. , 2013, , .		15
44	Adversarial Robustness: Softmax versus Openmax. , 2017, , .		14
45	Power Conservation in ZigBee Networks using Temporal Control. , 2007, , .		13
46	CloudStash: Using Secret-Sharing Scheme to Secure Data, Not Keys, in Multi-clouds. , 2014, , .		13
47	Component Fusion for Face Detection in the Presence of Heteroscedastic Noise. Lecture Notes in Computer Science, 2003, , 434-441.	1.0	13
48	Secure remote matching with privacy: Scrambled support vector vaulted verification (S<sup>2</sup>V<sup>3</sup>). , 2012, , .		12
49	Problems and Promises of Using the Cloud and Biometrics. , 2014, , .		12
50	Open-Set Support Vector Machines. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3785-3798.	5.9	12
51	Recovery Of Superquadrics From 3-D Information. Proceedings of SPIE, 1988, , .	0.8	11
52	Remote Reality via omni-directional imaging. , 1998, , .		11
53	A Multimodal Approach for Predicting Changes in PTSD Symptom Severity. , 2018, , .		11
54	Predicting Change in Posttraumatic Distress Through Change in Coping Self-Efficacy After Using the My Trauma Recovery eHealth Intervention: Laboratory Investigation. JMIR Mental Health, 2018, 5, e10309.	1.7	11

#	ARTICLE	IF	CITATIONS
55	FACE-GRAB: Face recognition with General Region Assigned to Binary operator. , 2010, , .		10
56	PARAPH: Presentation Attack Rejection by Analyzing Polarization Hypotheses. , 2016, , .		10
57	Automated big text security classification. , 2016, , .		10
58	Automatic Open-World Reliability Assessment. , 2021, , .		10
59	Classification Enhancement via Biometric Pattern Perturbation. Lecture Notes in Computer Science, 2005, , 850-859.	1.0	10
60	Voice authentication using short phrases: Examining accuracy, security and privacy issues. , 2013, , .		9
61	Exploring Contextual Engagement for Trauma Recovery. , 2017, , .		9
62	Solving Global Cybersecurity Problems by Connecting Trust Using Blockchain. , 2018, , .		9
63	Difficult detection: A comparison of two different approaches to eye detection for unconstrained environments. , 2009, , .		8
64	Exemplar codes for facial attributes and tattoo recognition. , 2014, , .		8
65	HPPD: A Hop-count Probabilistic Packet Dropper. , 2006, , .		7
66	Single image deblurring for a real-time face recognition system. , 2010, , .		7
67	Genetic algorithm attack on minutiae-based fingerprint authentication and protected template fingerprint systems. , 2015, , .		7
68	Long-Range Facial Image Acquisition and Quality. Advances in Pattern Recognition, 2009, , 169-192.	0.8	7
69	A computational asset vulnerability model for the strategic protection of the critical infrastructure. International Journal of Critical Infrastructure Protection, 2014, 7, 167-177.	2.9	6
70	Automated big security text pruning and classification. , 2016, , .		6
71	Adversarial Attack on Deep Learning-Based Splice Localization. , 2020, , .		6
72	Enhancing Open-Set Recognition using Clustering-based Extreme Value Machine (C-EVM). , 2020, , .		6

#	ARTICLE	IF	CITATIONS
73	Updating Distance Maps When Objects Move. Proceedings of SPIE, 1987, , .	0.8	5
74	Super-Resolution via Image Warping. , 2002, , 131-169.		5
75	FAAD: face at a distance. Proceedings of SPIE, 2008, , .	0.8	5
76	With vaulted voice verification my voice is my key. , 2013, , .		5
77	Towards comparable cross-sector risk analyses: A re-examination of the Risk Analysis and Management for Critical Asset Protection (RAMCAP) methodology. International Journal of Critical Infrastructure Protection, 2016, 14, 28-40.	2.9	5
78	Physics in a fantasy world vs robust statistical estimation. Lecture Notes in Computer Science, 1995, , 277-295.	1.0	5
79	The Unseen Challenge data sets. , 2008, , .		4
80	ECLIPSE: Ensembles of Centroids Leveraging Iteratively Processed Spatial Eclipse Clustering. , 2018, , .		4
81	Recovery of Straight Homogeneous Generalized Cylinders Using Contour and Intensity Information. , 1989, , .		3
82	<title>Increasing robustness in self-localization and pose estimation</title>. , 1999, , .		3
83	Two thresholds are better than one. , 2007, , .		3
84	Hop-count based probabilistic packet dropping: Congestion mitigation with loss rate differentiation. Computer Communications, 2007, 30, 3859-3869.	3.1	3
85	Reliable Posterior Probability Estimation for Streaming Face Recognition. , 2014, , .		3
86	Automated Action Units Vs. Expert Raters: Face off. , 2018, , .		3
87	Chainlets: A New Descriptor for Detection and Recognition. , 2018, , .		3
88	Face system evaluation toolkit: Recognition is harder than it seems. , 2010, , .		2
89	id-Privacy in large scale biometric systems. , 2010, , .		2
90	Context-patch for difficult face recognition. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
91	PRIVV: Private remote iris-authentication with Vaulted Verification. , 2012, , .		2
92	GRAB: generalized region assigned to binary. Eurasip Journal on Image and Video Processing, 2013, 2013, .	1.7	2
93	Remote authentication using vaulted fingerprint verification. Proceedings of SPIE, 2014, , .	0.8	2
94	Towards Application-centric Fairness in Multi-tenant Clouds with Adaptive CPU Sharing Model. , 2016, , .		2
95	Towards a Comparable Cross-Sector Risk Analysis: RAMCAP Revisited. IFIP Advances in Information and Communication Technology, 2016, , 221-237.	0.5	2
96	CarVideos: A Novel Dataset for Fine-Grained Car Classification in Videos. Advances in Intelligent Systems and Computing, 2019, , 457-464.	0.5	2
97	Privacy and Security Enhancements in Biometrics. , 2008, , 423-445.		2
98	Agglomerative Clustering with Threshold Optimization via Extreme Value Theory. Algorithms, 2022, 15, 170.	1.2	2
99	Optimal algorithms: Tools for mathematical modeling. Journal of Complexity, 1987, 3, 183-200.	0.7	1
100	<title>Tubular mosaics</title>. , 2001, 4195, 192.		1
101	Improving Variance Estimation in Biometric Systems. , 2007, , .		1
102	Spatio-temporal consistency and distributivity as qualities of features. , 2008, , .		1
103	CALIPER: Continuous Authentication Layered with Integrated PKI Encoding Recognition. , 2016, , .		1
104	Cross-Modal Facial Attribute Recognition with Geometric Features. , 2017, , .		1
105	CNN with Paragraph to Multi-Sequence Learning for Sensitive Text Detection. , 2019, , .		1
106	An Experimental System For The Integration Of Information From Stereo And Multiple Shape From Texture Algorithms. , 1988, , .		0
107	<title>Energy-based segmentation of very sparse range surfaces</title>. , 1991, , .		0
108	<title>Introduction of explicit sensor models in error recovery</title>. , 1992, , .		0

#	ARTICLE	IF	CITATIONS
109	Guest Editorial: Stereo and Multi-Baseline Vision. International Journal of Computer Vision, 2002, 47, 5-5.	10.9	0
110	Systems issues in distributed multi-modal surveillance. , 2007, , .		0
111	The Bachelor of Innovation™ Family of Degrees: Transforming Education in Engineering to Education in Innovation. , 2010, , .		0
112	Top-down facilitation of multistage decisions for face recognition. , 2010, , .		0
113	Trusted BWI: Privacy and trust enhanced biometric web identities. , 2013, , .		0
114	TPAMI CVPR Special Section. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2819-2820.	9.7	0
115	Perpetuating Biometrics for Authentication. Advances in Intelligent Systems and Computing, 2016, , 161-176.	0.5	0
116	Furthering fingerprint-based authentication: Introducing the true-neighbor template. , 2016, , .		0
117	Learning Visual Engagement for Trauma Recovery. , 2018, , .		0
118	I-MOVE: Independent Moving Objects for Velocity Estimation. , 2020, , .		0
119	Efficient Run Time Optimization with Static Single Assignment. , 2000, , 67-76.		0
120	A Look at Eye Detection for Unconstrained Environments. , 2011, , 361-387.		0
121	Energy-Based Segmentation of Sparse Range Data. , 1991, , 43-50.		0
122	What Do You Do When You Know That You Don't Know?. , 2016, , .		0
123	ComFu: Improving Visual Clustering by Commonality Fusion. , 2021, , .		0