

Stephanie A Caswell Schuckers

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

3,496
citations

257101

24
h-index

205818

48
g-index

134
all docs

134
docs citations

134
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	Spoofing and Anti-Spoofing Measures. Information Security Technical Report, 2002, 7, 56-62.	1.3	227
2	Time-Series Detection of Perspiration as a Liveness Test in Fingerprint Devices. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 335-343.	3.3	152
3	Determination of vitality from a non-invasive biomedical measurement for use in fingerprint scanners. Pattern Recognition, 2003, 36, 383-396.	5.1	143
4	Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behavior. Physiological Measurement, 2008, 29, 525-541.	1.2	141
5	Automatic Detection of Swallowing Events by Acoustical Means for Applications of Monitoring of Ingestive Behavior. IEEE Transactions on Biomedical Engineering, 2010, 57, 626-633.	2.5	135
6	LivDet 2011 — Fingerprint liveness detection competition 2011. , 2012, , .		123
7	On Techniques for Angle Compensation in Nonideal Iris Recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1176-1190.	5.5	118
8	First International Fingerprint Liveness Detection Competitionâ€™LivDet 2009. Lecture Notes in Computer Science, 2009, , 12-23.	1.0	96
9	EEG indices of tonic pain-related activity in the somatosensory cortices. Clinical Neurophysiology, 2008, 119, 1201-1212.	0.7	90
10	Integrating a wavelet based perspiration liveness check with fingerprint recognition. Pattern Recognition, 2009, 42, 452-464.	5.1	87
11	Review of the Fingerprint Liveness Detection (LivDet) competition series: 2009 to 2015. Image and Vision Computing, 2017, 58, 110-128.	2.7	85
12	LivDet 2015 fingerprint liveness detection competition 2015. , 2015, , .		83
13	Fingerprint Liveness Detection Using Local Ridge Frequencies and Multiresolution Texture Analysis Techniques. , 2006, , .		74
14	Effects of brewing conditions on the antioxidant capacity of twenty-four commercial green tea varieties. Food Chemistry, 2016, 192, 380-387.	4.2	66
15	Social Behaviometrics for Personalized Devices in the Internet of Things Era. IEEE Access, 2017, 5, 12199-12213.	2.6	62
16	LivDet iris 2017 â€™ Iris liveness detection competition 2017. , 2017, , .		62
17	Use of approximate entropy measurements to classify ventricular tachycardia and fibrillation. Journal of Electrocardiology, 1998, 31, 101-105.	0.4	60
18	Toward Objective Monitoring of Ingestive Behavior in Freeâ€living Population. Obesity, 2009, 17, 1971-1975.	1.5	60

#	ARTICLE	IF	CITATIONS
19	Activity-based sleep-wake identification in infants. <i>Physiological Measurement</i> , 2004, 25, 1291-1304.	1.2	58
20	Energy intake estimation from counts of chews and swallows. <i>Appetite</i> , 2015, 85, 14-21.	1.8	57
21	Sleep Versus Wake Classification From Heart Rate Variability Using Computational Intelligence: Consideration of Rejection in Classification Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 108-118.	2.5	56
22	New approach for liveness detection in fingerprint scanners based on valley noise analysis. <i>Journal of Electronic Imaging</i> , 2008, 17, 011009.	0.5	56
23	Automatic food intake detection based on swallowing sounds. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 649-656.	3.5	56
24	Spoofing protection for fingerprint scanner by fusing ridge signal and valley noise. <i>Pattern Recognition</i> , 2010, 43, 2845-2857.	5.1	55
25	Shared research dataset to support development of keystroke authentication. , 2014, , .		53
26	Multimodal fusion vulnerability to non-zero effort (spoof) imposters. , 2010, , .		50
27	Comparison of Texture Analysis Schemes Under Nonideal Conditions. <i>IEEE Transactions on Image Processing</i> , 2011, 20, 2260-2275.	6.0	49
28	A novel biorthogonal wavelet network system for off-angle iris recognition. <i>Pattern Recognition</i> , 2010, 43, 987-1007.	5.1	44
29	Iris quality assessment and bi-orthogonal wavelet based encoding for recognition. <i>Pattern Recognition</i> , 2009, 42, 1878-1894.	5.1	43
30	LivDet-iris 2013 - Iris Liveness Detection Competition 2013. , 2014, , .		42
31	Active shape models for effective iris segmentation. , 2006, 6202, 166.		39
32	Fast Free-Text Authentication via Instance-Based Keystroke Dynamics. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2020, 2, 377-387.	3.8	39
33	Automatic Recognition of postures and activities in stroke patients. , 2009, 2009, 2200-3.		36
34	LivDet-Iris 2015 - Iris Liveness Detection Competition 2015. , 2017, , .		33
35	Quality in face and iris research ensemble (Q-FIRE). , 2010, , .		29
36	Automatic detection of artifacts in heart period data. <i>Journal of Electrocardiology</i> , 2001, 34, 205-210.	0.4	27

#	ARTICLE	IF	CITATIONS
37	<title>A wavelet-based approach to detecting liveness in fingerprint scanners</title>. , 2004, 5404, 278.		25
38	Detection of Food Intake from Swallowing Sequences by Supervised and Unsupervised Methods. Annals of Biomedical Engineering, 2010, 38, 2766-2774.	1.3	25
39	Shared dataset on natural human-computer interaction to support continuous authentication research. , 2017, , .		24
40	Texture Modeling for Synthetic Fingerprint Generation. , 2013, , .		22
41	The effect of environmental conditions and novel spoofing methods on fingerprint anti-spoofing algorithms. , 2010, , .		21
42	Increase the Security of Multibiometric Systems by Incorporating a Spoofing Detection Algorithm in the Fusion Mechanism. Lecture Notes in Computer Science, 2011, , 309-318.	1.0	21
43	Enabling Secure and Privacy Preserving Identity Management via Smart Contract. , 2019, , .		21
44	Iris Liveness Detection Competition (LivDet-Iris) - The 2020 Edition. , 2020, , .		21
45	Detecting Liveness in Fingerprint Scanners Using Wavelets: Results of the Test Dataset. Lecture Notes in Computer Science, 2004, , 100-110.	1.0	20
46	The Energetics of Obesity: A Review: Monitoring Energy Intake and Energy Expenditure in Humans. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 31-35.	1.1	20
47	Detection of periods of food intake using Support Vector Machines. , 2010, 2010, 1004-7.		20
48	Impact of out-of-focus blur on face recognition performance based on modular transfer function. , 2012, , .		20
49	Presentations and attacks, and spoofs, oh my. Image and Vision Computing, 2016, 55, 26-30.	2.7	20
50	Comparison of ridge- and intensity-based perspiration liveness detection methods in fingerprint scanners. , 2006, 6202, 94.		18
51	Boosting Face in Video Recognition via CNN Based Key Frame Extraction. , 2018, , .		18
52	Transcriptome-wide gene expression in a rat model of attention deficit hyperactivity disorder symptoms: Rats developmentally exposed to polychlorinated biphenyls. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2011, 156, 898-912.	1.1	17
53	A Novel Region Based Liveness Detection Approach for Fingerprint Scanners. Lecture Notes in Computer Science, 2009, , 627-636.	1.0	17
54	Identifying frequency-domain features for an EEG-based pain measurement system. , 2007, , .		16

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55	Automatic identification of the number of food items in a meal using clustering techniques based on the monitoring of swallowing and chewing. Biomedical Signal Processing and Control, 2012, 7, 474-480.	3.5	16
56	A study on quality-adjusted impact of time lapse on iris recognition. , 2012, , .		15
57	Fast Continuous User Authentication Using Distance Metric Fusion of Free-Text Keystroke Data. , 2019, , .		15
58	High Fidelity Fingerprint Generation: Quality, Uniqueness, And Privacy. , 2021, , .		15
59	Effect of data size on performance of free-text keystroke authentication. , 2015, , .		14
60	Towards secure cloud-centric Internet of Biometric Things. , 2015, , .		14
61	Preliminary assessment of a model to predict mold contamination based on microbial volatile organic compound profiles. Science of the Total Environment, 2010, 408, 3648-3653.	3.9	13
62	Robust Color Texture Features Under Varying Illumination Conditions. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 58-68.	5.5	13
63	Benchmarking keystroke authentication algorithms. , 2017, , .		13
64	CNN based key frame extraction for face in video recognition. , 2018, , .		13
65	Towards integrating level-3 Features with perspiration pattern for robust fingerprint recognition. , 2010, , .		12
66	Mobile behavioristic framework for sociability assessment and identification of smartphone users. , 2016, , .		12
67	IoT Edge Device Based Key Frame Extraction for Face in Video Recognition. , 2018, , .		12
68	Comparison of quality-based fusion of face and iris biometrics. , 2011, , .		11
69	Review of Iris Presentation Attack Detection Competitions. Advances in Computer Vision and Pattern Recognition, 2019, , 169-183.	0.9	11
70	Off-Angle Iris Recognition Using Bi-Orthogonal Wavelet Network System. , 0, , .		10
71	Limited receptive area neural classifier for recognition of swallowing sounds using continuous wavelet transform. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3128-31.	0.5	10
72	A practical evaluation of free-text keystroke dynamics. , 2017, , .		10

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73	Limited receptive area neural classifier for recognition of swallowing sounds using short-time Fourier transform. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	9
74	Effects of text filtering on authentication performance of keystroke biometrics. , 2016, , .		9
75	Fingerprint Presentation Attack Detection utilizing Time-Series, Color Fingerprint Captures. , 2019, , .		8
76	Iris Recognition Performance in Children: A Longitudinal Study. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 138-151.	3.8	8
77	Amperometric Bioelectronic Tongue for glucose determination. Sensing and Bio-Sensing Research, 2015, 3, 31-37.	2.2	7
78	Reliable determination of sleep versus wake from heart rate variability using neural networks. , 0, , .		6
79	Impact of out-of-focus blur on iris recognition. , 2011, , .		6
80	Analysis of heart rate variability for predicting cardiorespiratory events in infants. Biomedical Signal Processing and Control, 2012, 7, 325-332.	3.5	6
81	LivDet 2017 - Fingerprint Systems Liveness Detection Competition. , 2018, , .		6
82	Recognition of Swallowing Sounds Using Time-Frequency Decomposition and Limited Receptive Area Neural Classifier. , 2009, , 33-46.		6
83	Tachycardia Detection by Antitachycardia Devices: Present Limitations and Future Strategies. Journal of Interventional Cardiology, 1994, 7, 459-472.	0.5	5
84	Biorthogonal-wavelets-based iris recognition. , 2005, 5779, 59.		5
85	Subregion mosaicking applied to nonideal iris recognition. , 2014, , .		5
86	Gaze angle estimate and correction in iris recognition. , 2014, , .		5
87	Iris matching algorithm on many-core platforms. , 2015, , .		5
88	An Auto-tuning Assisted Power-Aware Study of Iris Matching Algorithm on Intel®™s SCC. Journal of Signal Processing Systems, 2015, 80, 261-276.	1.4	5
89	A longitudinal study of iris recognition in children. , 2018, , .		5
90	Detection and prediction of concentrations of neurotransmitters using voltammetry and pattern recognition. , 2009, 2009, 3493-6.		4

#	ARTICLE	IF	CITATIONS
91	Fast and efficient iris image enhancement using logarithmic image processing. , 2010, , .		4
92	Detection of Cardioseismographic Signals throughout the Body. , 2013, , .		4
93	Detection of spoofed identities on smartphones via sociability metrics. , 2017, , .		4
94	Utilizing Keystroke Dynamics as Additional Security Measure to Protect Account Recovery Mechanism. , 2021, , .		4
95	Shared Multi-Keyboard and Bilingual Datasets to Support Keystroke Dynamics Research. , 2022, , .		4
96	Securing Account Recovery Mechanism on Desktop Computers and Mobile Phones with Keystroke Dynamics. SN Computer Science, 2022, 3, .	2.3	4
97	<title>Improvement of an algorithm for recognition of liveness using perspiration in fingerprint devices</title>. , 2004, , .		3
98	Exploring QT interval changes as a precursor to the onset of ventricular fibrillation/tachycardia. Journal of Electrocardiology, 2009, 42, 374-379.	0.4	3
99	Key-Frame Analysis for Face Related Video on GPU-Accelerated Embedded Platform. , 2016, , .		3
100	A mobile platform for sociability-based continuous identification. , 2016, , .		3
101	A Feasibility Study on Utilizing Toe Prints for Biometric Verification of Children. , 2019, , .		3
102	Group Leakage Overestimates Performance: A Case Study in Keystroke Dynamics. , 2021, , .		3
103	A novel distance-based algorithm for multi-user classification in keystroke dynamics. , 2020, , .		3
104	Face Recognition in Children: A Longitudinal Study. , 2022, , .		3
105	Augmented Two-Channel Arrhythmia Detection: An Efficient Diagnostic Method for Implantable Devices. PACE - Pacing and Clinical Electrophysiology, 1996, 19, 1493-1501.	0.5	2
106	Continuous time delay neural networks for detection of temporal patterns in signals. , 0, , .		2
107	<title>Nonfrontal/nonideal iris localization and acquisition</title>. , 2004, , .		2
108	Reply to "Comment on "Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behavior"™. Physiological Measurement, 2009, 30, L5-L7.	1.2	2

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109	One Time Biometric Transform to secure biometric templates. , 2010, , .		2
110	A Power-Aware Study of Iris Matching Algorithms on Intel's SCC. , 2013, , .		2
111	Workload characteristics for iris matching algorithm: A case study. , 2013, , .		2
112	Removing Personally Identifiable Information from Shared Dataset for Keystroke Authentication Research. , 2019, , .		2
113	Activity-based sleep-wake identification in infants. , 0, , .		1
114	Error Encoded PDE-Textons for Face Recognition. , 2007, , .		1
115	Recent Advances in Biometric Systems: A Signal Processing Perspective. Eurasip Journal on Advances in Signal Processing, 2010, 2009, .	1.0	1
116	Combining Level-3 Features with Perspiration Pattern: Extended Database Results. , 2010, , .		1
117	Utilizing automatic quality selection scheme for multi-modal biometric fusion. , 2013, , .		1
118	Latencies of Cardiac-Linked Seismic Pulses in Head Accelerometer Measurements. , 2013, , .		1
119	Analysis of Low Probability of Intercept Radar Signals Using the Reassignment Method. American Journal of Engineering and Applied Sciences, 2015, 8, 26-47.	0.3	1
120	Implementation and optimization of a biometric cryptosystem using iris recognition. Proceedings of SPIE, 2015, , .	0.8	1
121	Continuous Authentication based on Hand Micro-movement during Smartphone Form Filling by Seated Human Subjects. , 2021, , .		1
122	Hardware Accelerator Approach Towards Efficient Biometric Cryptosystems for Network Security. Journal of Computing and Information Technology, 2015, 23, 329.	0.2	1
123	Analysis of Dilation in Children and its Impact on Iris Recognition. , 2020, , .		1
124	Deep Slap Fingerprint Segmentation for Juveniles and Adults. , 2021, , .		1
125	Analysis of heart rate variability in a rabbit model of heart failure using Karhunen-Loeve expansion. , 0, , .		0
126	Electronic and Electromechanical Tester of physiological sensors. , 2012, , .		0

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127	A Novel Approach for the Characterization of FSK Low Probability of Intercept Radar Signals via Application of the Reassignment Method. , 2014, , .		0
128	Validation of Biometric Identification of Dairy Cows based on Udder NIR Images. , 2018, , .		0
129	Antispoofing methods in hand-based biometrics. , 2018, , 399-413.		0