

# Christophe rosenberger

## List of Publications by Year in descending order

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Version: 2024-02-01

141  
papers

2,072  
citations

471371

17  
h-index

395590

33  
g-index

148  
all docs

148  
docs citations

148  
times ranked

1633  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review and Evaluation of Commonly-Implemented Background Subtraction Algorithms. , 2008, , .		173
2	Towards a sensor for detecting human presence and characterizing activity. Energy and Buildings, 2011, 43, 305-314.	3.1	170
3	GREYC keystroke: A benchmark for keystroke dynamics biometric systems. , 2009, , .		110
4	A tele-operated mobile ultrasound scanner using a light-weight robot. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 50-58.	3.6	97
5	Unsupervised Performance Evaluation of Image Segmentation. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	94
6	Palm Vein Verification System Based on SIFT Matching. Lecture Notes in Computer Science, 2009, , 1290-1298.	1.0	85
7	Unconstrained keystroke dynamics authentication with shared secret. Computers and Security, 2011, 30, 427-445.	4.0	62
8	Soft biometrics for keystroke dynamics: Profiling individuals while typing passwords. Computers and Security, 2014, 45, 147-155.	4.0	51
9	Web-Based Benchmark for Keystroke Dynamics Biometric Systems: A Statistical Analysis. , 2012, , .		49
10	Keystroke dynamics with low constraints SVM based passphrase enrollment. , 2009, , .		48
11	Literature review of fingerprint quality assessment and its evaluation. IET Biometrics, 2016, 5, 243-251.	1.6	39
12	A study of users' acceptance and satisfaction of biometric systems. , 2010, , .		38
13	A new soft biometric approach for keystroke dynamics based on gender recognition. International Journal of Information Technology and Management, 2012, 11, 35.	0.1	38
14	Unsupervised evaluation of image segmentation application to multi-spectral images. , 2004, , .		34
15	Secure payment with NFC mobile phone in the SmartTouch project. , 2008, , .		34
16	Abnormal events detection based on spatio-temporal co-occurrences. , 2009, , .		34
17	Keystroke dynamics authentication for collaborative systems. , 2009, , .		30
18	Comparative Study of Contour Detection Evaluation Criteria Based on Dissimilarity Measures. Eurasip Journal on Image and Video Processing, 2008, 2008, 1-13.	1.7	29

#	ARTICLE	IF	CITATIONS
19	Fast computation of the performance evaluation of biometric systems: Application to multibiometrics. Future Generation Computer Systems, 2013, 29, 788-799.	4.9	27
20	Genetic programming for multibiometrics. Expert Systems With Applications, 2012, 39, 1837-1847.	4.4	26
21	Adaptive Biometric Systems. ACM Computing Surveys, 2020, 52, 1-38.	16.1	25
22	Optimization-Based Image Segmentation by Genetic Algorithms. Eurasip Journal on Image and Video Processing, 2008, 2008, 1-10.	1.7	24
23	Low Cost and Usable Multimodal Biometric System Based on Keystroke Dynamics and 2D Face Recognition. , 2010, , .		24
24	Biohashing for Securing Minutiae Template. , 2010, , .		24
25	Double serial adaptation mechanism for keystroke dynamics authentication based on a single password. Computers and Security, 2019, 83, 151-166.	4.0	24
26	Grape Detection By Image Processing. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	23
27	Segmentation Framework Based on Label Field Fusion. IEEE Transactions on Image Processing, 2007, 16, 2535-2550.	6.0	23
28	Analysis of template update strategies for keystroke dynamics. , 2011, , .		23
29	A review on the public benchmark databases for static keystroke dynamics. Computers and Security, 2015, 55, 46-61.	4.0	23
30	Keystroke Dynamics Overview. , 0, , .		22
31	Soft Biometrics for Keystroke Dynamics. Lecture Notes in Computer Science, 2013, , 11-18.	1.0	18
32	Vision-Based System for Human Detection and Tracking in Indoor Environment. International Journal of Social Robotics, 2010, 2, 41-52.	3.1	17
33	Evaluation of biometric systems: a study of users' acceptance and satisfaction. International Journal of Biometrics, 2012, 4, 265.	0.3	17
34	A New Supervised Evaluation Criterion for Region Based Segmentation Methods. , 2007, , 439-448.		16
35	Statistical modeling of keystroke dynamics samples for the generation of synthetic datasets. Future Generation Computer Systems, 2019, 100, 907-920.	4.9	15
36	Calibration and quality control of cherries by artificial vision. Journal of Electronic Imaging, 2004, 13, 539.	0.5	14

#	ARTICLE	IF	CITATIONS
37	Hybrid template update system for unimodal biometric systems. , 2012, , .		14
38	Operational bioâ€hash to preserve privacy of fingerprint minutiae templates. IET Biometrics, 2013, 2, 76-84.	1.6	14
39	GREYC-Hashing: Combining biometrics and secret for enhancing the security of protected templates. Future Generation Computer Systems, 2019, 101, 819-830.	4.9	14
40	Analysis of Doddington zoo classification for user dependent template update: Application to keystroke dynamics recognition. Future Generation Computer Systems, 2019, 97, 210-218.	4.9	14
41	A Real Time Human Detection System Based on Far Infrared Vision. Lecture Notes in Computer Science, 2008, , 76-84.	1.0	14
42	Genetic fusion: application to multi-components image segmentation. , 0, , .		13
43	Towards a New Tool for the Evaluation of the Quality of Ultrasound Compressed Images. IEEE Transactions on Medical Imaging, 2006, 25, 1502-1509.	5.4	12
44	Evaluation of Cancelable Biometric Systems: Application to Finger-Knuckle-Prints. , 2011, , .		12
45	One-Time Biometrics for Online Banking and Electronic Payment Authentication. Lecture Notes in Computer Science, 2014, , 179-193.	1.0	12
46	Unsupervised and Supervised Image Segmentation Evaluation. , 2006, , 365-393.		12
47	Similarity-based matching for face authentication. , 2008, , .		11
48	Keystroke template update with adapted thresholds. , 2016, , .		11
49	Comparative study of global invariant descriptors for object recognition. Journal of Electronic Imaging, 2008, 17, 023015.	0.5	10
50	Comparative study of localization metrics for the evaluation of image interpretation systems. Journal of Electronic Imaging, 2010, 19, 023017.	0.5	10
51	Analysis of embedded applications by evolutionary fuzzing. , 2014, , .		10
52	Enhancing the Security of Transformation Based Biometric Template Protection Schemes. , 2018, , .		10
53	Study on Color Spaces for Single Image Enrolment Face Authentication. , 2010, , .		9
54	Evaluation of Biometric Template Protection Schemes based on a Transformation. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
55	Comparative study of metrics for evaluation of object localisation by bounding boxes.. , 2007, , .		8
56	Biometric secret path for mobile user authentication: A preliminary study. , 2013, , .		8
57	Quality assessment of image-based biometric information. Eurasip Journal on Image and Video Processing, 2015, 2015, .	1.7	8
58	Comparative study on texture features for fingerprint recognition: application to the BioHashing template protection scheme. Journal of Electronic Imaging, 2016, 25, 013033.	0.5	8
59	Multi-Agent Based Prototyping of Agriculture Robots. , 0, , .		7
60	Optical sensor system using computer vision for the level measurement in oil tankers. , 2008, , .		7
61	Service provider authentication assurance. , 2012, , .		7
62	Local user-centric identity management. Journal of Trust Management, 2015, 2, .	0.4	7
63	User Dependent Template Update for Keystroke Dynamics Recognition. , 2018, , .		7
64	Comparative Study on Foreground Detection Algorithms for Human Detection. , 2007, , .		6
65	Security and performance evaluation platform of biometric match on card. , 2013, , .		6
66	Vulnerabilities of fuzzy vault schemes using biometric data with traces. , 2015, , .		6
67	Keystroke dynamics performance enhancement with soft biometrics. , 2015, , .		6
68	Adaptive Biometric Strategy using Doddington Zoo Classification of Userâ€™s Keystroke Dynamics. , 2018, , .		6
69	Evolutionary Computation Approaches for Shape Modelling and Fitting. Lecture Notes in Computer Science, 2005, , 144-155.	1.0	6
70	Privacy Preserving Transparent Mobile Authentication. , 2017, , .		6
71	Evaluation metric for image understanding. , 2009, , .		5
72	Fast learning for multibiometrics systems using genetic algorithms. , 2010, , .		5

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73	Can Chronological Information be Used as a Soft Biometric in Keystroke Dynamics?. , 2012, , .		5
74	An integrated framework combining Bio-Hashed minutiae template and PKCS15 compliant card for a better secure management of fingerprint cancelable templates. Computers and Security, 2013, 39, 325-339.	4.0	5
75	Synchronous One Time Biometrics with Pattern Based Authentication. , 2016, , .		5
76	Analysis of Keystroke Dynamics for the Generation of Synthetic Datasets. , 2018, , .		5
77	Rhu Keystroke Touchscreen Benchmark. , 2018, , .		5
78	Enhancing the privacy of electronic passports. International Journal of Information Technology and Management, 2012, 11, 122.	0.1	4
79	Texture based fingerprint BioHashing: Attacks and robustness. , 2012, , .		4
80	Image Watermarking with Biometric Data for Copyright Protection. , 2015, , .		4
81	A comparative study of card-not-present e-commerce architectures with card schemes: What about privacy?. Journal of Information Security and Applications, 2018, 40, 103-110.	1.8	4
82	Vulnerability of Adaptive Strategies of Keystroke Dynamics Based Authentication Against Different Attack Types. , 2019, , .		4
83	Automation of the Volumetric Models Construction. , 2008, , 214-238.		4
84	Evaluation Protocol for Localization Metrics. Lecture Notes in Computer Science, 2008, , 273-280.	1.0	4
85	Quality Assessment of Fingerprints with Minutiae Delaunay Triangulation. , 2015, , .		4
86	How Artificial Intelligence can be used for Behavioral Identification?. , 2021, , .		4
87	Toward a complete adaptive analysis of an image. Journal of Electronic Imaging, 2003, 12, 292.	0.5	3
88	3D shape reconstruction of template models using genetic algorithms. , 2004, , .		3
89	Comparative study of invariant descriptors for face recognition. , 2006, , .		3
90	Comparative Study of Local Descriptors for Measuring Object Taxonomy. , 2009, , .		3

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91	Security EvaBio: An analysis tool for the security evaluation of biometric authentication systems. , 2012, , .		3
92	A contactless e-health information system with privacy. , 2013, , .		3
93	A mobile contactless point of sale enhanced by the NFC and biometric technologies. International Journal of Internet Technology and Secured Transactions, 2013, 5, 1.	0.3	3
94	Fingerprint Quality Assessment with Multiple Segmentation. , 2015, , .		3
95	Application of new alteration attack on biometric authentication systems. , 2015, , .		3
96	Comparative study of minutiae selection algorithms for ISO fingerprint templates. , 2015, , .		3
97	Comparative Study of Digital Fingerprint Quality Assessment Metrics. , 2018, , .		3
98	Evaluation of the Quality of Ultrasound Image Compression by Fusion of Criteria with a Genetic Algorithm. Lecture Notes in Computer Science, 2005, , 464-472.	1.0	3
99	A support vector machine as an estimator of mountain papaya ripeness using resonant frequency or frequency centroid. International Federation for Information Processing, 2006, , 335-344.	0.4	3
100	An e-payment Architecture Ensuring a High Level of Privacy Protection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 305-322.	0.2	3
101	Segmentation Evaluation Using a Support Vector Machine. Lecture Notes in Computer Science, 2005, , 426-435.	1.0	2
102	An e-banking platform for collaborative work between education, industry and research. , 2008, , .		2
103	A New Protocol to Evaluate the Resistance of Template Update Systems against Zero-Effort Attacks. , 2013, , .		2
104	Memory Carving in Embedded Devices: Separate the Wheat from the Chaff. Lecture Notes in Computer Science, 2016, , 592-608.	1.0	2
105	Privacy Compliant Multi-biometric Authentication on Smartphones. , 2018, , .		2
106	<title>Multi-agent systems and neural networks for automatic target recognition on air images</title>. , 2000, , .		1
107	Calibration and quality control of cherries by artificial vision. , 2003, , .		1
108	2D color shape recognition using Zernike moments. , 2005, , .		1

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109	Online user's registration respecting privacy. , 2013, , .		1
110	Parametrization of an image understanding quality metric with a subjective evaluation. Pattern Recognition Letters, 2013, 34, 511-518.	2.6	1
111	Blind minutiae selection for standard minutiae templates. , 2015, , .		1
112	Memory carving can finally unveil your embedded personal data. , 2017, , .		1
113	Contrasting False Identities in Social Networks by Trust Chains and Biometric Reinforcement. , 2017, , .		1
114	Fusion of Digital Fingerprint Quality Assessment Metrics. , 2020, , .		1
115	EvaBio a New Modular Platform to Evaluate Biometric System. Communications in Computer and Information Science, 2015, , 234-250.	0.4	1
116	Fingerprint Class Recognition for Securing EMV Transaction. , 2017, , .		1
117	Keystroke Dynamics Anonymization System. , 2019, , .		1
118	Keystroke Dynamics Classification Based On LSTM and BLSTM Models. , 2021, , .		1
119	Face Transparent User Authentication Respecting Privacy. , 2021, , .		1
120	When my Behavior Enhances my Smartphone Security. , 2020, , .		1
121	Evaluation of the quality of ultrasound image compression for a robotic tele-echographic system. , 2005, , .		0
122	Multi-agents system for image understanding. , 0, , .		0
123	Evaluation methodologies of image processing: An overview. , 2006, , .		0
124	Study of the influence of parameter settings for local invariant object recognition. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	0
125	Matching between telemetric measures and images for mobile robotics. , 2007, , .		0
126	A General Framework for a Robust Human Detection in Images Sequences. , 2009, , .		0



#	ARTICLE	IF	CITATIONS
127	Emerging trends in biometric authentication. , 2009, , .		0
128	Toward a distributed benchmarking tool for biometrics. , 2011, , .		0
129	Generation of Local and Expected Behaviors of a Smart Card Application to Detect Software Anomaly. , 2015, , .		0
130	Evaluation metric of an image understanding result. Journal of Electronic Imaging, 2015, 24, 013030.	0.5	0
131	In What Way Is It Possible to Impersonate You Bypassing Fingerprint Sensors?. , 2016, , .		0
132	Retrieving dates in smart card dumps is as hard as finding a needle in a haystack. , 2017, , .		0
133	Comparative Study of Fingerprint Database Indexing Methods. , 2019, , .		0
134	My Behavior is my Privacy & Secure Password !. , 2019, , .		0
135	Logical Attacks and Countermeasures for Fingerprint On-Card-Comparison Systems. Sensors, 2020, 20, 5410.	2.1	0
136	Texture Detection for Image Analysis. Lecture Notes in Computer Science, 2005, , 455-463.	1.0	0
137	A Low-Cost and Secure Solution for e-Commerce. Advanced Information and Knowledge Processing, 2010, , 455-469.	0.2	0
138	Evaluation of Human Detection Algorithms in Image Sequences. Lecture Notes in Computer Science, 2010, , 121-130.	1.0	0
139	An Observe-and-Detect Methodology for the Security and Functional Testing of Smart Card Applications. , 2016, , .		0
140	Towards an Optimal Template Reduction for Securing Embedded Fingerprint Devices. , 2018, , .		0
141	Splitting Wolves Category in Doddington Zoo: Impacts on Keystroke Dynamics. , 2020, , .		0