

# Svetlana N Yanushkevich

## List of Publications by Year in descending order

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146  
papers

956  
citations

840776

11  
h-index

752698

20  
g-index

151  
all docs

151  
docs citations

151  
times ranked

480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-Spectrum Thermal Face Pattern Generator. IEEE Access, 2022, 10, 9576-9586.	4.2	2
2	Masked Face Recognition From Synthesis to Reality. IEEE Access, 2022, 10, 37938-37952.	4.2	9
3	Assessment of tissue toxicity risk in breast radiotherapy using Bayesian networks. Medical Physics, 2022, 49, 3585-3596.	3.0	3
4	Adaptive Classification of Occluded Facial Expressions of Affective States. , 2022, , .		0
5	Dynamic Hybrid Learning for Improving Facial Expression Classifier Reliability. , 2022, , .		0
6	Contrastive Data Learning for Facial Pose and Illumination Normalization. , 2021, , .		0
7	Relatable Clothing: Detecting Visual Relationships between People and Clothing. , 2021, , .		0
8	Intelligent Stress Monitoring Assistant for First Responders. IEEE Access, 2021, 9, 25314-25329.	4.2	37
9	Assessing Risks of Biases in Cognitive Decision Support Systems. , 2021, , .		7
10	IEEE Access Special Section Editorial: Intelligent Biometric Systems for Secure Societies. IEEE Access, 2021, 9, 71418-71421.	4.2	1
11	Development of a Machine Learning Model for Optimal Applicator Selection in High-Dose-Rate Cervical Brachytherapy. Frontiers in Oncology, 2021, 11, 611437.	2.8	2
12	Thermal-Mask " A Dataset for Facial Mask Detection and Breathing Rate Measurement. , 2021, , .		9
13	Capturing causality and bias in human action recognition. Pattern Recognition Letters, 2021, 147, 164-171.	4.2	6
14	Adversarial and adaptive tone mapping operator: multi-scheme generation and multi-metric evaluation. Journal of Electronic Imaging, 2021, 30, .	0.9	1
15	Diagnosis/Prognosis of COVID-19 Chest Images via Machine Learning and Hypersignal Processing: Challenges, opportunities, and applications. IEEE Signal Processing Magazine, 2021, 38, 37-66.	5.6	15
16	Relatable Clothing: Soft-Attention Mechanism for Detecting Worn/Unworn Objects. IEEE Access, 2021, 9, 108782-108792.	4.2	2
17	A Graph Convolutional Neural Network for Reliable Gait-Based Human Recognition. , 2021, , .		0
18	Advances in Autonomous Systems: A Summary of the AutoDefence Summer School at IEEE ICASâ€™21. , 2021, , .		0

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19	Thermal Face Image Generator. , 2021, , .		2
20	Decision Support for Infection Outbreak Analysis: the case of the Diamond Princess cruise ship. , 2021, , .		2
21	Cognitive Identity Management: Synthetic Data, Risk and Trust. , 2020, , .		5
22	An Ensemble of Knowledge Sharing Models for Dynamic Hand Gesture Recognition. , 2020, , .		7
23	Risk, Trust, and Bias: Causal Regulators of Biometric-Enabled Decision Support. IEEE Access, 2020, 8, 148779-148792.	4.2	11
24	A Tripartite Theory of Trustworthiness for Autonomous Systems. , 2020, , .		11
25	Detecting Proper Mask Usage with Soft Attention. , 2020, , .		3
26	Social Behavioral Biometrics in Smart Societies. Advances in Computational Intelligence and Robotics Book Series, 2020, , 1-24.	0.4	3
27	Detecting Subject-Weapon Visual Relationships. , 2020, , .		0
28	Adversarial and Adaptive Tone Mapping Operator for High Dynamic Range Images. , 2020, , .		8
29	Reliability of Decision Support in Cross-spectral Biometric-enabled Systems. , 2020, , .		0
30	Decision Support for Video-based Detection of Flu Symptoms. , 2020, , .		3
31	Video-Based Breathing Rate Monitoring in Sleeping Subjects. , 2020, , .		5
32	Instance Segmentation of Personal Protective Equipment using a Multi-stage Transfer Learning Process. , 2020, , .		0
33	Multi-Metric Evaluation of Thermal-to-Visual Face Recognition. , 2019, , .		6
34	Face Attributes and Detection of Drug Addicts. , 2019, , .		0
35	Hybrid Score- and Rank-Level Fusion for Person Identification using Face and ECG Data. , 2019, , .		4
36	Risk Inference Models for Security Applications. , 2019, , .		0

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37	Detecting Thermal Face Signature Abnormalities. , 2019, , .		1
38	Cognitive checkpoint: Emerging technologies for biometric-enabled watchlist screening. Computers and Security, 2019, 85, 372-385.	6.0	6
39	On Autonomous Systems: From Reflexive, Imperative and Adaptive Intelligence to Autonomous and Cognitive Intelligence. , 2019, , .		11
40	Multimodal Models for Contextual Affect Assessment in Real-Time. , 2019, , .		4
41	Generative Adversarial Network for Radar Signal Synthesis. , 2019, , .		19
42	Dog Identification using Soft Biometrics and Neural Networks. , 2019, , .		8
43	Face Attribute Prediction in Live Video using Fusion of Features and Deep Neural Networks. , 2019, , .		1
44	Biometric-enabled watchlists technology. IET Biometrics, 2018, 7, 163-172.	2.5	5
45	Mass Evidence Accumulation and Traveler Risk Scoring Engine in e-Border Infrastructure. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3271-3281.	8.0	5
46	Understanding and taxonomy of uncertainty in modeling, simulation, and risk profiling for border control automation. Journal of Defense Modeling and Simulation, 2018, 15, 95-109.	1.7	7
47	Transfer Learning on Convolutional Neural Networks for Dog Identification. , 2018, , .		9
48	Detection of Asymmetric Abnormalities in Gait using Depth Data and Dynamic Bayesian Networks. , 2018, , .		3
49	Gait Type Analysis Using Dynamic Bayesian Networks. Sensors, 2018, 18, 3329.	3.8	9
50	Technology Gap Navigator: Emerging Design of Biometric-Enabled Risk Assessment Machines. , 2018, , .		3
51	CNN+RNN Depth and Skeleton based Dynamic Hand Gesture Recognition. , 2018, , .		64
52	Bridging the Gap Between Forensics and Biometric-Enabled Watchlists for e-Borders. IEEE Computational Intelligence Magazine, 2017, 12, 16-28.	3.2	11
53	Multi-Scale histogram tone mapping algorithm enables better object detection in wide dynamic range images. , 2017, , .		3
54	Risk assessment in the face-based watchlist screening in e-borders. , 2017, , .		0

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55	Watchlist risk assessment using multiparametric cost and relative entropy. , 2017, , .		0
56	Utilizing gait traits to improve e-border watchlist performance. , 2017, , .		1
57	Wearable system-on-module for prosopagnosia rehabilitation. , 2016, , .		3
58	Multispectral hand recognition using the Kinect v2 sensor. , 2016, , .		4
59	Effects of training set selection on pain recognition via facial expressions. , 2016, , .		1
60	Pain recognition and intensity classification using facial expressions. , 2016, , .		4
61	Biometrics for Biomedical Applications. Studies in Computational Intelligence, 2016, , 143-161.	0.9	1
62	Biometric-Enabled Authentication Machines: A Survey of Open-Set Real-World Applications. IEEE Transactions on Human-Machine Systems, 2016, 46, 231-242.	3.5	35
63	Risk Assessment in Authentication Machines. Studies in Computational Intelligence, 2016, , 391-420.	0.9	6
64	Depth Assisted Palm Region Extraction Using the Kinect v2 Sensor. , 2015, , .		3
65	Biometrics in human-machine interaction. , 2015, , .		2
66	Taxonomy and Modeling of Impersonation in e-Border Authentication. , 2015, , .		4
67	Belief Network Support via Decision Diagrams. , 2015, , .		1
68	Biometric Intelligence in Authentication Machines: from Talking Faces to Talking Robots. , 2014, , .		4
69	Multi-resolution fusion of DTCWT and DCT for shift invariant face recognition. , 2014, , .		3
70	Risk profiler in automated human authentication. , 2014, , .		6
71	Multispectral Hand Biometrics. , 2014, , .		6
72	Adaptive multi-stream score fusion for illumination invariant face recognition. , 2014, , .		6

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73	Modeling Risks in Biometric-Based Authentication Control Systems. , 2014, , .		1
74	Application of biometric technologies in biomedical systems. , 2014, , .		4
75	One-shot facial feature extraction based on Gauss-Laguerre filter. , 2014, , .		1
76	Fuzzy Rule Based Quality Measures for Adaptive Multimodal Biometric Fusion at Operation Time. , 2014, , .		2
77	Expression, Pose, and Illumination Invariant Face Recognition using Lower Order Pseudo Zernike Moments. , 2014, , .		3
78	An Efficient Facial Expression Recognition System in Infrared Images. , 2013, , .		5
79	Situational Awareness through Biometrics. Computer, 2013, 46, 102-104.	1.1	12
80	Introduction to Noise-Resilient Computing. Synthesis Lectures on Digital Circuits and Systems, 2013, 8, 1-152.	0.3	1
81	Modified Multiscale Vesselness Filter for Facial Feature Detection. , 2013, , .		5
82	Facial biometrics for situational awareness systems. IET Biometrics, 2013, 2, 35-47.	2.5	14
83	Noise-Tolerant Model of a Ternary Inverter Based on Markov Random Field. , 2013, , .		0
84	Thermal Face Recognition: A Fusion Approach. , 2012, , .		2
85	Design of nanoelectronic ICs: Noise-tolerant logic based on cyclic BDD. , 2012, , .		2
86	Reliability evaluation of multivalued logic circuits via probabilistic transfer matrices. , 2012, , .		1
87	Optimum-Path Forest Classifier for Large Scale Biometric Applications. , 2012, , .		1
88	On the reliability of switching and multivalued networks. , 2012, , .		0
89	Secure Biometric System Design. , 2012, , .		0
90	Gauss-Laguerre wavelet textural feature fusion with geometrical information for facial expression identification. Eurasip Journal on Image and Video Processing, 2012, 2012, .	2.6	62

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91	A fast large scale iris database classification with Optimum-Path Forest technique: A case study. , 2012, , .		5
92	Synthetic Biometrics for Training Users of Biometric and Biomedical Systems. , 2011, , .		0
93	Belief network design for biometric systems. , 2011, , .		4
94	Mutant Fault Injection in Functional Properties of a Model to Improve Coverage Metrics. , 2011, , .		1
95	Belief trees and networks for biometric applications. Soft Computing, 2011, 15, 3-11.	3.6	4
96	Fault Tolerant Computing Paradigm for Random Molecular Phenomena: Hopfield Gates and Logic Networks. , 2011, , .		2
97	The EXOR gate under uncertainty: A case study. Facta Universitatis - Series Electronics and Energetics, 2011, 24, 451-482.	0.9	0
98	Natural Computing Paradigms for Predictable Nanoelectronics. Journal of Computational and Theoretical Nanoscience, 2010, 7, 303-324.	0.4	5
99	FACIAL BIOMETRICS USING NONTENSOR PRODUCT WAVELET AND 2D DISCRIMINANT TECHNIQUES. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 521-543.	1.2	41
100	Fundamentals of Biometric System Design: New Course for Electrical, Computer, and Software Engineering Students. , 2009, , .		1
101	Computing Paradigms for Logic Nanocells. Journal of Computational and Theoretical Nanoscience, 2008, 5, 2377-2395.	0.4	4
102	Spatial Interconnect Analysis for Predictable Nanotechnologies. Journal of Computational and Theoretical Nanoscience, 2008, 5, 56-69.	0.4	10
103	Biometric-Based Decision Support Assistance in Physical Access Control Systems. , 2008, , .		4
104	NONITERATIVE 3D FACE RECONSTRUCTION BASED ON PHOTOMETRIC STEREO. International Journal of Pattern Recognition and Artificial Intelligence, 2008, 22, 389-410.	1.2	31
105	Support of Interviewing Techniques in Physical Access Control Systems. Lecture Notes in Computer Science, 2008, , 147-158.	1.3	7
106	Accelerating Decision Making Support in Biometric Assistant for Remote Temperature Measures. , 2007, , .		4
107	Developmental Tools - Synthetic Biometrics. IEEE Computational Intelligence Magazine, 2007, 2, 60-69.	3.2	9
108	Introduction to Synthesis in Biometrics. Series in Machine Perception and Artificial Intelligence, 2007, , 5-29.	0.1	4

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109	Fundamentals of Biometric-Based Training System Design. Series in Machine Perception and Artificial Intelligence, 2007, , 365-406.	0.1	15
110	Teaching Reed-Muller techniques in introductory classes on logic design. Facta Universitatis - Series Electronics and Energetics, 2007, 20, 331-365.	0.9	1
111	Logic Design of Computational Nanostructures. Journal of Computational and Theoretical Nanoscience, 2007, 4, 384-407.	0.4	0
112	Spatial Systolic Arrays Design for Predictable Nanotechnologies. Journal of Computational and Theoretical Nanoscience, 2007, 4, 467-481.	0.4	1
113	Embedding and Assembling Techniques for Spatial Computing Structure Design using Decision Trees and Diagrams. , 2006, , .		2
114	Semantic Framework for Biometric-Based Access Control Systems. , 2006, , .		5
115	Synthetic Biometrics: A Survey. , 2006, , .		7
116	Experience of Design and Prototyping of a Multi-Biometric Early Warning Physical Access Control Security System (PASS) and a Training System (T-PASS). Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	13
117	Foreword to the Special Issue "Arithmetical Logic in Control Systems" Automation and Remote Control, 2004, 65, 841.	0.8	0
118	Malyugin's Theorems: A New Concept in Logical Control, VLSI Design, and Data Structures for New Technologies. Automation and Remote Control, 2004, 65, 893-912.	0.8	6
119	Representation of Logical Circuits by Linear Decision Diagrams with Extension to Nanostructures. Automation and Remote Control, 2004, 65, 920-937.	0.8	5
120	Modeling Combinational Circuits Using Linear Word-level Structures. Automation and Remote Control, 2004, 65, 1018-1032.	0.8	1
121	Three-Dimensional Feedforward Neural Networks and Their Realization by Nano-Devices. Artificial Intelligence Review, 2003, 20, 473-494.	15.7	2
122	Editorial "Artificial Intelligence in Logic Design. Artificial Intelligence Review, 2003, 20, 167-168.	15.7	1
123	An Approach to Flexible Multi-Level Network Design. Kluwer International Series in Engineering and Computer Science, 2003, , 214-223.	0.2	0
124	Matrix and combinatorics solutions of Boolean differential equations. Discrete Applied Mathematics, 2002, 117, 279-292.	0.9	0
125	Linear Models of Circuits Based on the Multivalued Components. Automation and Remote Control, 2002, 63, 960-980.	0.8	5
126	On the number of generators for transeunt triangles. Discrete Applied Mathematics, 2001, 108, 309-316.	0.9	7



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127	Comments on "Sympathy: fast exact minimization of fixed polarity Reed-Muller expansion for symmetric functions". IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2000, 19, 1386-1388.	2.7	12
128	Matrix method for solving multivalued logic differential equations. IEE Proceedings: Computers and Digital Techniques, 1997, 144, 267.	1.6	5
129	Solution of boolean differential equations on systolic arrays. Cybernetics and Systems Analysis, 1996, 32, 26-40.	0.7	3
130	Parallel algorithms for evaluation of directional Boolean derivatives of multivalued logic functions. Cybernetics and Systems Analysis, 1996, 32, 777-793.	0.7	5
131	<title>Systolic arrays for binary image processing by using Boolean differential operators</title>. , 1993, , .		2
132	Algorithms of Boolean differential calculus for systolic processors. Cybernetics and Systems Analysis, 1990, 26, 345-360.	0.0	1
133	Technique of computing logic derivatives for MVL-functions. , 0, , .		13
134	Test pattern generation for combinatorial multi-valued networks based on generalized D-algorithm. , 0, , .		6
135	Functional entropy and decision trees. , 0, , .		18
136	Information theoretical approach to minimization of AND/EXOR expressions of switching functions. , 0, , .		6
137	Experimental verification of the entropy based method for minimization of switching functions on pseudo ternary decision trees. , 0, , .		2
138	Application of design style in evolutionary multi-level networks synthesis. , 0, , .		6
139	Experiments on FPRM expressions for partially symmetric logic functions. , 0, , .		8
140	Evolutionary multi-level network synthesis in given design style. , 0, , .		14
141	Information theoretic approach to minimization of polynomial expressions over GF(4). , 0, , .		9
142	Two-stage exact detection of symmetries. , 0, , .		1
143	Information theory method for flexible network synthesis. , 0, , .		12
144	Three dimensional multiple valued circuits design based on single-electron logic. , 0, , .		5

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145	Decision-Making Support in Biometric-Based Physical Access Control Systems: Design Concept, Architecture, and Applications. , 0 , 599-631.		7
146	Epidemic Attack on the Aircraft Carrier Theodore Roosevelt: Bridging the Gaps in Emergency Management. Journal of Defense Modeling and Simulation, 0 , 154851292110286.	1.7	4