

# Eric Medvet

## List of Publications by Year in descending order

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117  
papers

1,390  
citations

687363

13  
h-index

642732

23  
g-index

122  
all docs

122  
docs citations

122  
times ranked

659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Merging pruning and neuroevolution: towards robust and efficient controllers for modular soft robots. Knowledge Engineering Review, 2022, 37, .	2.6	7
2	Optimizing the Sensory Apparatus of Voxel-Based Soft Robots Through Evolution and Babbling. SN Computer Science, 2022, 3, 1.	3.6	5
3	One-Shot Learning of Ensembles of Temporal Logic Formulas for Anomaly Detection in Cyber-Physical Systems. Lecture Notes in Computer Science, 2022, , 34-50.	1.3	1
4	On the Schedule for Morphological Development of Evolved Modular Soft Robots. Lecture Notes in Computer Science, 2022, , 146-161.	1.3	7
5	Merging pruning and neuroevolution: towards robust and efficient controllers for modular soft robots – Corrigendum. Knowledge Engineering Review, 2022, 37, .	2.6	3
6	Evolving modular soft robots without explicit inter-module communication using local self-attention. , 2022, , .		15
7	Automatic Search-and-Replace From Examples With Coevolutionary Genetic Programming. IEEE Transactions on Cybernetics, 2021, 51, 2612-2624.	9.5	4
8	Speeding-up pruning for Artificial Neural Networks: Introducing Accelerated Iterative Magnitude Pruning. , 2021, , .		7
9	Beyond Body Shape and Brain: Evolving the Sensory Apparatus of Voxel-Based Soft Robots. Lecture Notes in Computer Science, 2021, , 210-226.	1.3	10
10	Crowded Environment Navigation with NEAT: Impact of Perception Resolution on Controller Optimization. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	3.4	2
11	Criticality-Driven Evolution of Adaptable Morphologies of Voxel-Based Soft-Robots. Frontiers in Robotics and AI, 2021, 8, 673156.	3.2	11
12	Biodiversity in evolved voxel-based soft robots. , 2021, , .		21
13	On the effects of pruning on evolved neural controllers for soft robots. , 2021, , .		11
14	Model learning with personalized interpretability estimation (ML-PIE). , 2021, , .		11
15	Evolutionary Optimization of Graphs with GraphEA. Lecture Notes in Computer Science, 2021, , 83-98.	1.3	5
16	Mining Road Traffic Rules with Signal Temporal Logic and Grammar-Based Genetic Programming. Applied Sciences (Switzerland), 2021, 11, 10573.	2.5	9
17	Crossing the Reality Gap: A Survey on Sim-to-Real Transferability of Robot Controllers in Reinforcement Learning. IEEE Access, 2021, 9, 153171-153187.	4.2	47
18	Weighted Hierarchical Grammatical Evolution. IEEE Transactions on Cybernetics, 2020, 50, 476-488.	9.5	12

#	ARTICLE	IF	CITATIONS
19	Genetic programming in the twenty-first century: a bibliometric and content-based analysis from both sides of the fence. Genetic Programming and Evolvable Machines, 2020, 21, 181-204.	2.2	11
20	Visualizing the outcome of dynamic analysis of Android malware with VizMal. Journal of Information Security and Applications, 2020, 50, 102423.	2.5	37
21	2D-VSR-Sim: A simulation tool for the optimization of 2-D voxel-based soft robots. SoftwareX, 2020, 12, 100573.	2.6	20
22	On the Impact of the Rules on Autonomous Drive Learning. Applied Sciences (Switzerland), 2020, 10, 2394.	2.5	11
23	Specializing Context-Free Grammars With a (1 + 1)-EA. IEEE Transactions on Evolutionary Computation, 2020, 24, 960-973.	10.0	5
24	A Complete Framework for the Synthesis of Powered Floor Systems. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1045-1055.	5.8	5
25	Interactive example-based finding of text items. Expert Systems With Applications, 2020, 154, 113403.	7.6	1
26	Learning a Formula of Interpretability to Learn Interpretable Formulas. Lecture Notes in Computer Science, 2020, , 79-93.	1.3	12
27	Evolution of distributed neural controllers for voxel-based soft robots. , 2020, , .		18
28	Mosaic Images Segmentation using U-net. , 2020, , .		3
29	Investigating Similarity Metrics for Convolutional Neural Networks in the Case of Unstructured Pruning. Lecture Notes in Computer Science, 2020, , 87-111.	1.3	2
30	On the Similarity between Hidden Layers of Pruned and Unpruned Convolutional Neural Networks. , 2020, , .		3
31	Evolutionary optimization of sliding contact positions in powered floor systems for mobile robots. Automatisierungstechnik, 2020, 68, 97-109.	0.8	0
32	Exploring the Potential of GPT-2 for Generating Fake Reviews of Research Papers. Frontiers in Artificial Intelligence and Applications, 2020, , .	0.3	3
33	Designing automatically a representation for grammatical evolution. Genetic Programming and Evolvable Machines, 2019, 20, 37-65.	2.2	2
34	An analysis of dimensionality reduction techniques for visualizing evolution. , 2019, , .		11
35	Multi-level diversity promotion strategies for Grammar-guided Genetic Programming. Applied Soft Computing Journal, 2019, 83, 105599.	7.2	11
36	Design of Powered Floor Systems for Mobile Robots with Differential Evolution. Lecture Notes in Computer Science, 2019, , 19-32.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Enterprise wi-fi. Communications of the ACM, 2019, 62, 33-35.	4.5	1
38	Evolutionary Synthesis of Sensing Controllers for Voxel-based Soft Robots. , 2019, , .		7
39	Evolutionary Synthesis of Sensing Controllers for Voxel-based Soft Robots. , 2019, , .		4
40	Automatic Translation of Spatio-Temporal Logics to Streaming-Based Monitoring Applications for IoT-Equipped Autonomous Agents. , 2019, , .		2
41	Communication-based cooperative tasks. , 2019, , .		0
42	Evil twins and WPA2 Enterprise: A coming security disaster?. Computers and Security, 2018, 74, 1-11.	6.0	26
43	On the Automatic Design of a Representation for Grammar-Based Genetic Programming. Lecture Notes in Computer Science, 2018, , 101-117.	1.3	4
44	Active Learning of Regular Expressions for Entity Extraction. IEEE Transactions on Cybernetics, 2018, 48, 1067-1080.	9.5	22
45	Back To The Basics. , 2018, , .		0
46	(In)Secure Configuration Practices of WPA2 Enterprise Supplicants. , 2018, , .		10
47	Detection of Obfuscation Techniques in Android Applications. , 2018, , .		17
48	Unveiling evolutionary algorithm representation with DU maps. Genetic Programming and Evolvable Machines, 2018, 19, 351-389.	2.2	9
49	Selfish vs. global behavior promotion in car controller evolution. , 2018, , .		1
50	Exploring the application of GOMEA to bit-string GE. , 2018, , .		1
51	GOMGE: Gene-Pool Optimal Mixing on Grammatical Evolution. Lecture Notes in Computer Science, 2018, , 223-235.	1.3	3
52	Impact of Code Obfuscation on Android Malware Detection based on Static and Dynamic Analysis. , 2018, , .		25
53	VizMal: A Visualization Tool for Analyzing the Behavior of Android Malware. , 2018, , .		2
54	Hierarchical grammatical evolution. , 2017, , .		10

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55	An effective diversity promotion mechanism in grammatical evolution. , 2017, , .		4
56	Evolvability in grammatical evolution. , 2017, , .		11
57	A Language for UAV Traffic Rules in an Urban Environment and Decentralized Scenario. , 2017, , .		2
58	The DU map. , 2017, , .		2
59	A Comparative Analysis of Dynamic Locality and Redundancy in Grammatical Evolution. Lecture Notes in Computer Science, 2017, , 326-342.	1.3	13
60	Road Traffic Rules Synthesis Using Grammatical Evolution. Lecture Notes in Computer Science, 2017, , 173-188.	1.3	5
61	Understanding Needs, Identifying Opportunities: ICT in the View of Universal Design. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 31-40.	0.3	1
62	Computer Vision for the Blind: A Comparison of Face Detectors in a Relevant Scenario. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 145-154.	0.3	1
63	An Architecture for Anonymous Mobile Coupons in a Large Network. Journal of Computer Networks and Communications, 2016, 2016, 1-10.	1.6	2
64	On the Automatic Construction of Regular Expressions from Examples (GP vs. Humans 1-0). , 2016, , .		1
65	Can a Machine Replace Humans in Building Regular Expressions? A Case Study. IEEE Intelligent Systems, 2016, 31, 15-21.	4.0	12
66	Exploring the Usage of Topic Modeling for Android Malware Static Analysis. , 2016, , .		9
67	Spotting the Malicious Moment: Characterizing Malware Behavior Using Dynamic Features. , 2016, , .		24
68	A Language and an Inference Engine for Twitter Filtering Rules. , 2016, , .		2
69	"Best Dinner Ever!!!": Automatic Generation of Restaurant Reviews with LSTM-RNN. , 2016, , .		3
70	Acquiring and Analyzing App Metrics for Effective Mobile Malware Detection. , 2016, , .		32
71	Regex-based entity extraction with active learning and genetic programming. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2016, 16, 7-15.	0.9	3
72	Predicting the effectiveness of pattern-based entity extractor inference. Applied Soft Computing Journal, 2016, 46, 398-406.	7.2	2

#	ARTICLE	IF	CITATIONS
73	Your Paper has been Accepted, Rejected, or Whatever: Automatic Generation of Scientific Paper Reviews. Lecture Notes in Computer Science, 2016, , 19-28.	1.3	12
74	Computer vision for the blind: A dataset for experiments on face detection and recognition. , 2016, , .		5
75	Correction to "Inference of Regular Expressions for Text Extraction from Examples". IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1944-1944.	5.7	0
76	Inference of Regular Expressions for Text Extraction from Examples. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1217-1230.	5.7	62
77	Syntactical Similarity Learning by Means of Grammatical Evolution. Lecture Notes in Computer Science, 2016, , 260-269.	1.3	9
78	Active learning approaches for learning regular expressions with genetic programming. , 2016, , .		5
79	Image processing issues in a social assistive system for the blind. , 2015, , .		7
80	Effectiveness of Opcode ngrams for Detection of Multi Family Android Malware. , 2015, , .		75
81	Data Quality Challenge. Journal of Data and Information Quality, 2015, 6, 1-4.	2.1	3
82	Detecting Android malware using sequences of system calls. , 2015, , .		91
83	Evolutionary Learning of Syntax Patterns for Genic Interaction Extraction. , 2015, , .		4
84	Evolutionary Inference of Attribute-Based Access Control Policies. Lecture Notes in Computer Science, 2015, , 351-365.	1.3	35
85	Learning Text Patterns Using Separate-and-Conquer Genetic Programming. Lecture Notes in Computer Science, 2015, , 16-27.	1.3	15
86	On the Assessment of Segmentation Methods for Images of Mosaics. , 2015, , .		4
87	Towards More Natural Social Interactions of Visually Impaired Persons. Lecture Notes in Computer Science, 2015, , 729-740.	1.3	5
88	Continuous and Non-intrusive Reauthentication of Web Sessions Based on Mouse Dynamics. , 2014, , .		1
89	Publication Venue Recommendation Based on Paper Abstract. , 2014, , .		38
90	Automatic Synthesis of Regular Expressions from Examples. Computer, 2014, 47, 72-80.	1.1	43

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91	Playing regex golf with genetic programming. , 2014, , .		10
92	Bibliometric Evaluation of Researchers in the Internet Age. Information Society, 2014, 30, 349-354.	2.9	12
93	Detection of Malicious Web Pages Using System Calls Sequences. Lecture Notes in Computer Science, 2014, , 226-238.	1.3	11
94	Semisupervised Wrapper Choice and Generation for Print-Oriented Documents. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 208-220.	5.7	2
95	Compressing Regular Expression Sets for Deep Packet Inspection. Lecture Notes in Computer Science, 2014, , 394-403.	1.3	4
96	Detection of Hidden Fraudulent URLs within Trusted Sites Using Lexical Features. , 2013, , .		11
97	Automatic Synthesis of Regular Expressions from Examples. Computer, 2013, , 1-1.	1.1	3
98	Automatic string replace by examples. , 2013, , .		3
99	A novel estimation methodology for tracheal pressure in mechanical ventilation control. , 2013, , .		1
100	Automatic generation of regular expressions from examples with genetic programming. , 2012, , .		32
101	A look at hidden web pages in Italian public administrations. , 2012, , .		1
102	Brand-Related Events Detection, Classification and Summarization on Twitter. , 2012, , .		7
103	Recording and Replaying Navigations on AJAX Web Sites. Lecture Notes in Computer Science, 2012, , 370-377.	1.3	3
104	Rainbow crypt: Securing communication through a protected visual channel. , 2011, , .		0
105	A probabilistic approach to printed document understanding. International Journal on Document Analysis and Recognition, 2011, 14, 335-347.	3.4	34
106	Anomaly detection techniques for a web defacement monitoring service. Expert Systems With Applications, 2011, 38, 12521-12530.	7.6	32
107	Automatic Face Annotation in News Images by Mining the Web. , 2011, , .		10
108	GP-Based Electricity Price Forecasting. Lecture Notes in Computer Science, 2011, , 37-48.	1.3	4

#	ARTICLE	IF	CITATIONS
109	Open world classification of printed invoices. , 2010, , .		6
110	A Framework for Large-Scale Detection of Web Site Defacements. ACM Transactions on Internet Technology, 2010, 10, 1-37.	4.4	14
111	The Reaction Time to Web Site Defacements. IEEE Internet Computing, 2009, 13, 52-58.	3.3	14
112	Camera-based Scrolling Interface for Hand-held Devices. , 2008, , .		0
113	Visual-similarity-based phishing detection. , 2008, , .		103
114	A Comparative Study of Anomaly Detection Techniques in Web Site Defacement Detection. International Federation for Information Processing, 2008, , 711-716.	0.4	5
115	Detection of Web Defacements by means of Genetic Programming. , 2007, , .		8
116	Automatic Integrity Checks for Remote Web Resources. IEEE Internet Computing, 2006, 10, 56-62.	3.3	10
117	Evolving Modularity in Soft Robots Through an Embodied and Self-Organizing Neural Controller. Artificial Life, 0, , 1-26.	1.3	2