Shingo Yamaguchi

List of Publications by Year
in descending order

72 papers	296 citations	1307594 7 h-index	1199594 12 g-index
73 all docs	73 docs citations	73 times ranked	121 citing authors

#	Article	IF	Citations
1	A support tool to design IoT services with NuSMV. , 2017, , .		29
2	Machine-Learning-Based White-Hat Worm Launcher in Botnet Defense System. International Journal of Software Science and Computational Intelligence, 2022, 14, 1-14.	3.0	22
3	White-Hat Worm to Fight Malware and Its Evaluation by Agent-Oriented Petri Nets. Sensors, 2020, 20, 556.	3.8	21
4	Botnet Defense System: Concept, Design, and Basic Strategy. Information (Switzerland), 2020, 11, 516.	2.9	19
5	State Number Calculation Problem of Workflow Nets. IEICE Transactions on Information and Systems, 2015, E98.D, 1128-1136.	0.7	14
6	An analysis system of IoT services based on agent-oriented Petri net PN2. , 2016, , .		14
7	Polynomial Time Verification of Reachability in Sound Extended Free-Choice Workflow Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 468-475.	0.3	11
8	A Model Checking Method of Soundness for Workflow Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2723-2731.	0.3	10
9	DDoS detection and filtering technique in cloud environment using GARCH model. , 2015, , .		8
10	A Petri net-based framework of intrusion detection systems. , 2015, , .		8
11	Machine Learning White-Hat Worm Launcher for Tactical Response by Zoning in Botnet Defense System. Sensors, 2022, 22, 4666.	3.8	8
12	Refactoring Problem of Acyclic Extended Free-Choice Workflow Nets to Acyclic Well-Structured Workflow Nets. IEICE Transactions on Information and Systems, 2012, E95.D, 1375-1379.	0.7	7
13	An interest-based tour planning tool by process mining from Twitter. , 2016, , .		7
14	On service orchestration of cyber physical system and its verification based on Petri net. , 2016, , .		7
15	Polynomial Time Verification of Protocol Inheritance between Acyclic Extended Free-Choice Workflow Nets and Their Subnets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 505-513.	0.3	7
16	Convertibility and Conversion Algorithm of Well-Structured Workflow Net to Process Tree. , 2013, , .		5
17	On modeling and simulation of the behavior of IoT malwares Mirai and Hajime. , 2017, , .		5
18	Modeling and Evaluation of Mitigation Methods against IoT Malware Mirai with Agent-Oriented Petri Net PN2. International Journal of Internet of Things and Cyber-Assurance, 2019, 1, 1.	0.8	5

#	ARTICLE	IF	CITATIONS
19	Two Sufficient Conditions on Refactorizability of Acyclic Extended Free Choice Workflow Nets to Acyclic Well-Structured Workflow Nets and Their Application. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 635-644.	0.3	5
20	On Tactics to Deploy White-Hat Worms in Botnet Defense System. , 2021, , .		5
21	On projection inheritance between acyclic extended free-choice workflow net and its subnet. , 2012, , .		4
22	A Refactoring Algorithm of Workflows Based on Petri Nets. , 2015, , .		4
23	Verification Method for Accumulative Event Relation of Message Passing Behavior with Process Tree for IoT Systems. Information (Switzerland), 2020, 11, 232.	2.9	4
24	Identification of Driving Safety Profiles in Vehicle to Vehicle Communication System Based on Vehicle OBD Information. Information (Switzerland), 2021, 12, 194.	2.9	4
25	Physical Device Compatibility Support for Implementation of IoT Services with Design Once, Provide Anywhere Concept. Information (Switzerland), 2021, 12, 30.	2.9	4
26	Parallel Degree of Well-Structured Workflow Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 2730-2739.	0.3	4
27	Protocol Inheritance Preserving Soundizability Problem and Its Polynomial Time Procedure for Acyclic Free Choice Workflow Nets. IEICE Transactions on Information and Systems, 2014, E97.D, 1181-1187.	0.7	3
28	Polynomial Time Verification of Behavioral Inheritance for Interworkflows Based on WfMC Protocol. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 2821-2829.	0.3	3
29	Implicit Places and Refactoring in Sound Acyclic Extended Free Choice Workflow Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 502-508.	0.3	3
30	Machine-Learning-Based White-Hat Worm Launcher Adaptable to Large-Scale IoT Network. , 2021, , .		3
31	A Proposal of Heterogeneous White-Hat Botnet in Botnet Defense System. , 2021, , .		3
32	A Proposal of Patrol Function by White-Hat Worm in Botnet Defense System. , 2021, , .		3
33	On Reachability in Acyclic Well-Structured Workflow Nets. , 2012, , .		2
34	A formal method of developing elevator group controllers based on S-ring and SPIN. , 2013, , .		2
35	Multi-car multi-shaft elevator system design problem and a solution method based on CPN tools. , 2013, , .		2
36	&#x00C9;clair: An elevator group controller model checking system based on S-ring and SPIN. , 2014, , .		2

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37	A function for generating debugging questions in a Java programming learning assistant system. , 2015, , .		2
38	Petri Net Based Refactoring of Workflows and Its Applications in System Development. Ieice Ess Fundamentals Review, 2016, 9, 340-349.	0.1	2
39	On service personalization analysis for the internet of me based on PN2. , 2016, , .		2
40	A Petri-net based approach for software evolution. , 2016, , .		2
41	Guest Editorial Deep Learning Models for Industry Informatics. IEEE Transactions on Industrial Informatics, 2018, 14, 3166-3169.	11.3	2
42	A Basic Command and Control Strategy in Botnet Defense System. , 2021, , .		2
43	Multi-Task Learning-Based Task Scheduling Switcher for a Resource-Constrained IoT System. Information (Switzerland), 2021, 12, 150.	2.9	2
44	State-of-the-Art and Future Direction of UAV Technologies [From the Editor's Desk]. IEEE Consumer Electronics Magazine, 2021, 10, 4-5.	2.3	2
45	Evaluation and Consideration on Multi-Car Elevator Group Control Algorithms. Ieice Ess Fundamentals Review, 2008, 2, 58-65.	0.1	1
46	A Petri net based support for derivative development of consumer electronic products. , 2013, , .		1
47	Proposal and evaluation of a state transition model of multi-car single-shaft elevators. , 2014, , .		1
48	Petri net-based parallel model checking with a splitting procedure. , 2015, , .		1
49	A simplified mathematical modeling and zone scheduling for multi-directional multi-car elevators. , 2015, , .		1
50	Superclass Extraction Problem of Workflow Nets and a Solution Procedure Based on Process Mining Technique. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1700-1707.	0.3	1
51	Implementation of parallel model checking for computer-based test security design. , 2016, , .		1
52	Flying Animals and the Art of Presentation [Society News]. IEEE Consumer Electronics Magazine, 2018, 7, 4-87.	2.3	1
53	IEEE Access Special Section Editorial: Recent Advances in Computational Intelligence Paradigms for Security and Privacy for Fog and Mobile Edge Computing. IEEE Access, 2019, 7, 134063-134070.	4.2	1
54	An Efficient Translation Method from Timed Petri Nets to Timed Automata. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1402-1411.	0.3	1

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55	Properties and Decision Procedure for Bridge-Less Workflow Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 509-512.	0.3	1
56	White-Hat Worm Launcher Based on Deep Learning in Botnet Defense System. , 2020, , .		1
57	Evaluation on White-Hat Worm Diffusion Method Based on The Evolution of Its Lifespan in Wireless Networks. , 2022, , .		1
58	A verification method of soundizability under protocol inheritance for acyclic free choice workflow nets. , 2013, , .		0
59	Tailor made device driver design system based on Petri nets. , 2014, , .		0
60	On State Number Calculation Problem in Petri Nets. , 2014, , .		0
61	On verification of implementation of security specification with Petri nets' protocol inheritance. , 2016, , .		0
62	The Young Professionals Event at ICCE 2019 [Society News]. IEEE Consumer Electronics Magazine, 2019, 8, 7-7.	2.3	0
63	Young Professionals Events at the IEEE International Conference on Consumer Electronics Berlin 2018 [Society News]. IEEE Consumer Electronics Magazine, 2019, 8, 6-96.	2.3	0
64	Reduction Operators Based on Behavioral Inheritance for Timed Petri Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 484-489.	0.3	0
65	Structural and Behavioral Properties of Well-Structured Workflow Nets. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 421-426.	0.3	0
66	Botnet Defense System and White-Hat Worm Launch Strategy in IoT Network. Advances in Information Security, Privacy, and Ethics Book Series, 2022, , 127-147.	0.5	0
67	On Application of Botnet Defense System to IoT Systems Including Private Networks. , 2021, , .		0
68	Botnet Defense System and Its Basic Strategy Against Malicious Botnet. , 2020, , .		0
69	What Can Consumer Technologies Contribute to the Future Society?. IEEE Consumer Electronics Magazine, 2022, 11, 4-5.	2.3	0
70	IEEE Consumer Technology Society Awards Presented at ICCE 2022. IEEE Consumer Electronics Magazine, 2022, 11, 9-11.	2.3	0
71	A DBSCAN-based White-Hat Worm Launcher for Botnet Defense System. , 2022, , .		0
72	Pipe leakage detection system with artificial neural network. IAES International Journal of Artificial Intelligence, 2022, 11, 977.	0.8	0