Massimiliano Albanese

List of Publications by Year
in descending order

83 papers	1,330 citations	566801 15 h-index	525886 27 g-index
92 all docs	92 docs citations	92 times ranked	863 citing authors

#	Article	IF	Citations
1	Network Diversity: A Security Metric for Evaluating the Resilience of Networks Against Zero-Day Attacks. IEEE Transactions on Information Forensics and Security, 2016, 11, 1071-1086.	4.5	92
2	A Multimedia Recommender System. ACM Transactions on Internet Technology, 2013, 13, 1-32.	3.0	85
3	Cauldron mission-centric cyber situational awareness with defense in depth. , 2011, , .		80
4	Time-efficient and cost-effective network hardening using attack graphs. , 2012, , .		65
5	A Constrained Probabilistic Petri Net Framework for Human Activity Detection in Video. IEEE Transactions on Multimedia, 2008, 10, 982-996.	5.2	59
6	A Multimedia Semantic Recommender System for Cultural Heritage Applications. , 2011, , .		46
7	A moving target defense approach for protecting resource-constrained distributed devices. , 2013, , .		44
8	A multimedia recommender integrating object features and user behavior. Multimedia Tools and Applications, 2010, 50, 563-585.	2.6	38
9	A moving target defense approach to mitigate DDoS attacks against proxy-based architectures. , 2016, , .		37
10	A Constrained Probabilistic Petri Net Framework for Human Activity Detection in Video*. IEEE Transactions on Multimedia, 2008, 10, 1429-1443.	5.2	36
11	Discovering the Top-k Unexplained Sequences in Time-Stamped Observation Data. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 577-594.	4.0	32
12	A Moving Target Defense Approach to Disrupting Stealthy Botnets. , 2016, , .		32
13	Scalable Analysis of Attack Scenarios. Lecture Notes in Computer Science, 2011, , 416-433.	1.0	32
14	A moving target defense mechanism for MANETs based on identity virtualization. , 2013, , .		31
15	CARA: A Cultural-Reasoning Architecture. IEEE Intelligent Systems, 2007, 22, 12-16.	4.0	30
16	Fast Activity Detection: Indexing for Temporal Stochastic Automaton-Based Activity Models. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 360-373.	4.0	30
17	Modeling Network Diversity for Evaluating the Robustness of Networks against Zero-Day Attacks. Lecture Notes in Computer Science, 2014, , 494-511.	1.0	30
18	Performance Modeling of Moving Target Defenses with Reconfiguration Limits. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 205-219.	3.7	28

#	Article	IF	Citations
19	Performance Modeling of Moving Target Defenses. , 2017, , .		26
20	Defending from Stealthy Botnets Using Moving Target Defenses. IEEE Security and Privacy, 2018, 16, 92-97.	1.5	25
21	PADS: A Probabilistic Activity Detection Framework for Video Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 2246-2261.	9.7	24
22	Moving Target Defense against DDoS Attacks. , 2016, , .		23
23	A Graphical Model to Assess the Impact of Multi-Step Attacks. Journal of Defense Modeling and Simulation, 2018, 15, 79-93.	1.2	22
24	Modeling recommendation as a social choice problem. , 2010, , .		20
25	Detecting Stealthy Botnets in a Resource-Constrained Environment using Reinforcement Learning. , 2017, , .		20
26	Manipulating the attacker's view of a system's attack surface. , 2014, , .		19
27	A deception based approach for defeating OS and service fingerprinting. , 2015, , .		18
28	Deceiving Attackers by Creating a Virtual Attack Surface. , 2016, , 167-199.		17
29	The priority curve algorithm for video summarization. Information Systems, 2006, 31, 679-695.	2.4	16
30	Web personalization based on static information and dynamic user behavior. , 2004, , .		15
31	A Formal Model for Video Shot Segmentation and its Application via Animate Vision. Multimedia Tools and Applications, 2004, 24, 253-272.	2.6	13
32	Recognizing Unexplained Behavior in Network Traffic. Advances in Information Security, 2014, , 39-62.	0.9	13
33	A Multi-Layer Moving Target Defense Approach for Protecting Resource-Constrained Distributed Devices. Advances in Intelligent Systems and Computing, 2014, , 299-324.	0.5	12
34	Information Retrieval from the Web: An Interactive Paradigm. Lecture Notes in Computer Science, 2005, , 17-32.	1.0	11
35	A web personalization system based on web usage mining techniques. , 2004, , .		10
36	Story creation from heterogeneous data sources. Multimedia Tools and Applications, 2007, 33, 351-377.	2.6	10

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37	Security and Privacy Issues in Social Networks. Data-centric Systems and Applications, 2015, , 195-209.	0.2	10
38	Next-generation technologies for preventing accidental death of children trapped in parked vehicles. , 2014, , .		9
39	A probabilistic framework for jammer identification in MANETs. Ad Hoc Networks, 2014, 14, 84-94.	3.4	9
40	A Framework for Moving Target Defense Quantification. IFIP Advances in Information and Communication Technology, 2017, , 124-138.	0.5	9
41	Network Hardening. SpringerBriefs in Computer Science, 2014, , .	0.2	8
42	Automated Cyber Situation Awareness Tools and Models for Improving Analyst Performance. Advances in Information Security, 2014, , 47-60.	0.9	8
43	Scalable Detection of Cyber Attacks. Communications in Computer and Information Science, 2011, , 9-18.	0.4	8
44	Disrupting stealthy botnets through strategic placement of detectors. , 2015, , .		7
45	Computer-Aided Human Centric Cyber Situation Awareness. Lecture Notes in Computer Science, 2017, , 3-25.	1.0	7
46	An Integrated Framework for Cyber Situation Awareness. Lecture Notes in Computer Science, 2017, , 29-46.	1.0	7
47	On Defensive Cyber Deception: A Case Study Using SDN. , 2018, , .		6
48	Reliable mission deployment in vulnerable distributed systems. , 2013, , .		5
49	A Logic Framework for Flexible and Security-Aware Service Composition. , 2013, , .		5
50	A Quantitative Framework to Model Reconnaissance by Stealthy Attackers and Support Deception-Based Defenses. , 2020, , .		5
51	Security and trust in cloud application life-cycle management. Future Generation Computer Systems, 2020, 111, 934-936.	4.9	5
52	A Novel Strategy for Recommending Multimedia Objects and its Application in the Cultural Heritage Domain. International Journal of Multimedia Data Engineering and Management, 2011, 2, 1-18.	0.3	5
53	A ranking method for multimedia recommenders. , 2010, , .		4
54	An Efficient Framework for Evaluating the Risk of Zero-Day Vulnerabilities. Communications in Computer and Information Science, 2014, , 322-340.	0.4	4

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55	Measuring the Effectiveness of Network Deception. , 2018, , .		4
56	SCIBORG: Secure Configurations for the IoT Based on optimization and Reasoning on Graphs. , 2020, , .		4
57	Moving Target Defense Quantification. Lecture Notes in Computer Science, 2019, , 94-111.	1.0	4
58	MAGIC: A Multi-Activity Graph Index for Activity Detection. , 2007, , .		3
59	A Probabilistic Framework for Localization of Attackers in MANETs. Lecture Notes in Computer Science, 2012, , 145-162.	1.0	3
60	From idea to prototype: Introducing students to entrepreneurship. , 2017, , .		3
61	Measuring Trust in Big Data. Lecture Notes in Computer Science, 2013, , 241-248.	1.0	3
62	Minimum-Cost Network Hardening. SpringerBriefs in Computer Science, 2014, , 23-38.	0.2	3
63	PLINI: A Probabilistic Logic Program Framework for Inconsistent News Information. Lecture Notes in Computer Science, 2011, , 347-376.	1.0	3
64	Adaptive Cyber Defenses for Botnet Detection and Mitigation. Lecture Notes in Computer Science, 2019, , 156-205.	1.0	3
65	MTD 2018. , 2018, , .		2
66	Securing Mission-Centric Operations in the Cloud. , 2014, , 239-259.		2
67	Keeping Intruders at Large - A Graph-theoretic Approach to Reducing the Probability of Successful Network Intrusions. , 2014, , .		2
68	Semantic Video Content Analysis. Studies in Computational Intelligence, 2010, , 147-176.	0.7	2
69	Proactive Defense Through Deception. Advances in Information Security, 2019, , 169-202.	0.9	2
70	A multimedia data base browsing system. , 2004, , .		1
71	A quantitative risk assessment framework for adaptive Intrusion Detection in the cloud. , 2016, , .		1
72	DeBot: A novel networkâ€based mechanism to detect exfiltration by architectural stealthy botnets. Security and Privacy, 2018, 1, e51.	1.9	1

#	Article	IF	Citations
73	FingerPIN: An Authentication Mechanism Integrating Fingerprints and Personal Identification Numbers. Communications in Computer and Information Science, 2021, , 500-511.	0.4	1
74	A Probabilistic Framework for Distributed Localization of Attackers in MANETs. Lecture Notes in Computer Science, 2013, , 49-64.	1.0	1
75	Online and Scalable Adaptive Cyber Defense. Lecture Notes in Computer Science, 2019, , 232-261.	1.0	1
76	Vulnerability Metrics for Graph-based Configuration Security. , 2021, , .		1
77	Mason Vulnerability Scoring Framework: A Customizable Framework for Scoring Common Vulnerabilities and Weaknesses. , 2022, , .		1
78	Security-Aware Scheduling of Mission Tasks under Temporal Constraints. , 2013, , .		0
79	From Cyber Situational Awareness to Adaptive Cyber Defense: Leveling the Cyber Playing Field. Lecture Notes in Computer Science, 2018, , 1-23.	1.0	0
80	Vulnerability Metrics for Graph-based Configuration Security. , 2021, , .		0
81	A Novel Strategy for Recommending Multimedia Objects and its Application in the Cultural Heritage Domain. , 2013, , 274-290.		0
82	A Quantitative Framework to Model Advanced Persistent Threats. , 2018, , .		0
83	A Quantitative Framework to Model Advanced Persistent Threats. , 2018, , .		0