

Vijayalakshmi Atluri

List of Publications by Year in descending order

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Version: 2024-02-01

183
papers

3,833
citations

304602

22
h-index

243529

44
g-index

200
all docs

200
docs citations

200
times ranked

1428
citing authors

#	ARTICLE	IF	CITATIONS
1	The specification and enforcement of authorization constraints in workflow management systems. ACM Transactions on Information and System Security, 1999, 2, 65-104.	4.5	444
2	Modeling and Analysis of Workflows Using Petri Nets. Journal of Intelligent Information Systems, 1998, 10, 131-158.	2.8	232
3	The role mining problem. , 2007, , .		206
4	RoleMiner. , 2006, , .		137
5	Analysis of political discourse on twitter in the context of the 2016 US presidential elections. Government Information Quarterly, 2017, 34, 613-626.	4.0	115
6	Optimal Boolean Matrix Decomposition: Application to Role Engineering. , 2008, , .		112
7	An authorization model for workflows. Lecture Notes in Computer Science, 1996, , 44-64.	1.0	109
8	A Survey of Role Mining. ACM Computing Surveys, 2016, 48, 1-37.	16.1	70
9	The Policy Machine: A novel architecture and framework for access control policy specification and enforcement. Journal of Systems Architecture, 2011, 57, 412-424.	2.5	67
10	A flexible model supporting the specification and enforcement of role-based authorization in workflow management systems. , 1997, , .		63
11	Supporting conditional delegation in secure workflow management systems. , 2005, , .		63
12	Concept-level access control for the Semantic Web. , 2003, , .		61
13	The role mining problem. ACM Transactions on Information and System Security, 2010, 13, 1-31.	4.5	57
14	Migrating to optimal RBAC with minimal perturbation. , 2008, , .		55
15	A Chinese wall security model for decentralized workflow systems. , 2001, , .		54
16	An authorization model for temporal and derived data. ACM Transactions on Information and System Security, 2002, 5, 62-94.	4.5	50
17	Neighborhood based detection of anomalies in high dimensional spatio-temporal sensor datasets. , 2004, , .		48
18	The Role Hierarchy Mining Problem: Discovery of Optimal Role Hierarchies. , 2008, , .		44

#	ARTICLE	IF	CITATIONS
19	Inter-instance authorization constraints for secure workflow management. , 2006, , .		42
20	A Petri net based safety analysis of workflow authorization models ¹ . Journal of Computer Security, 2000, 8, 209-240.	0.5	41
21	Preserving mobile customer privacy. , 2005, , .		41
22	Role Engineering via Prioritized Subset Enumeration. IEEE Transactions on Dependable and Secure Computing, 2010, 7, 300-314.	3.7	39
23	A geotemporal role-based authorisation system. International Journal of Information and Computer Security, 2007, 1, 143.	0.2	35
24	Enhancing the government service experience through QR codes on mobile platforms. Government Information Quarterly, 2014, 31, 6-16.	4.0	35
25	Effective anonymization of query logs. , 2009, , .		33
26	Security for Workflow Systems. Information Security Technical Report, 2001, 6, 59-68.	1.3	32
27	Analyzing temporal role based access control models. , 2012, , .		29
28	Sentiment based Analysis of Tweets during the US Presidential Elections. , 2017, , .		29
29	An authorization model for temporal data. , 2000, , .		28
30	Using Semantics for Policy-Based Web Service Composition. Distributed and Parallel Databases, 2005, 18, 37-64.	1.0	27
31	Edge-RMP: Minimizing administrative assignments for role-based access control. Journal of Computer Security, 2009, 17, 211-235.	0.5	27
32	Preserving Privacy in Social Networks: A Structure-Aware Approach. , 2009, , .		26
33	Meeting Cardinality Constraints in Role Mining. IEEE Transactions on Dependable and Secure Computing, 2015, 12, 71-84.	3.7	26
34	Specification and Verification of Separation of Duty Constraints in Attribute-Based Access Control. IEEE Transactions on Information Forensics and Security, 2018, 13, 897-911.	4.5	26
35	A Profile Anonymization Model for Privacy in a Personalized Location Based Service Environment. , 2008, , .		25
36	Evaluating the validity of data instances against ontology evolution over the Semantic Web. Information and Software Technology, 2009, 51, 83-97.	3.0	25

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37	Migrating from RBAC to temporal RBAC. IET Information Security, 2017, 11, 294-300.	1.1	24
38	Location-based Sentiment Analyses and Visualization of Twitter Election Data. Digital Government Research and Practice (DGOV), 2020, 1, 1-19.	1.2	24
39	Enforcing mandatory and discretionary security in workflow management systems*. Journal of Computer Security, 1997, 5, 303-339.	0.5	23
40	A semantic-based execution model for multilevel secure workflows. Journal of Computer Security, 2000, 8, 3-41.	0.5	23
41	SI in digital libraries. Communications of the ACM, 2000, 43, 64-72.	3.3	23
42	Privacy-preserving semantic interoperation and access control of heterogeneous databases. , 2006, , .		23
43	Constraint-Aware Role Mining Via Extended Boolean Matrix Decomposition. IEEE Transactions on Dependable and Secure Computing, 2012, , .	3.7	23
44	Crime Prediction Model using Deep Neural Networks. , 2019, , .		23
45	Security for Workflow Systems. , 2008, , 213-230.		22
46	Object discovery in high-resolution remote sensing images: a semantic perspective. Knowledge and Information Systems, 2009, 19, 211-233.	2.1	22
47	An optimization framework for role mining. Journal of Computer Security, 2014, 22, 1-31.	0.5	22
48	Random Walks to Identify Anomalous Free-Form Spatial Scan Windows. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 1378-1392.	4.0	21
49	A decentralized execution model for inter-organizational workflows. Distributed and Parallel Databases, 2007, 22, 55-83.	1.0	20
50	Towards formal security analysis of GTRBAC using timed automata. , 2009, , .		20
51	Spatial neighborhood based anomaly detection in sensor datasets. Data Mining and Knowledge Discovery, 2010, 20, 221-258.	2.4	20
52	Using semantics for automatic enforcement of access control policies among dynamic coalitions. , 2007, , .		19
53	A meta model for access control. , 2008, , .		18
54	Ensuring Privacy and Security for LBS through Trajectory Partitioning. , 2010, , .		18

#	ARTICLE	IF	CITATIONS
55	Managing attribute-based access control policies in a unified framework using data warehousing and in-memory database. Computers and Security, 2019, 86, 183-205.	4.0	18
56	Toward Mining of Temporal Roles. Lecture Notes in Computer Science, 2013, , 65-80.	1.0	18
57	The generalized temporal role mining problem. Journal of Computer Security, 2015, 23, 31-58.	0.5	17
58	Efficient Bottom-Up Mining of Attribute Based Access Control Policies. , 2017, 2017, 339-348.		17
59	Web-based application for sentiment analysis of live tweets. , 2018, , .		17
60	Automatic Enforcement of Access Control Policies Among Dynamic Coalitions. Lecture Notes in Computer Science, 2004, , 369-378.	1.0	17
61	Role Mining under Role-Usage Cardinality Constraint. International Federation for Information Processing, 2012, , 150-161.	0.4	17
62	Mining temporal roles using many-valued concepts. Computers and Security, 2016, 60, 79-94.	4.0	16
63	Chinese wall security for decentralized workflow management systems*. Journal of Computer Security, 2004, 12, 799-840.	0.5	15
64	Security analysis for temporal role based access control. Journal of Computer Security, 2014, 22, 961-996.	0.5	15
65	Utilizing social media to improve local government responsiveness. , 2014, , .		15
66	Policy Engineering in RBAC and ABAC. Lecture Notes in Computer Science, 2018, , 24-54.	1.0	15
67	LS3. , 2005, , .		14
68	Security analysis of GTRBAC and its variants using model checking. Computers and Security, 2011, 30, 128-147.	4.0	14
69	Security analysis of temporal RBAC under an administrative model. Computers and Security, 2014, 46, 154-172.	4.0	14
70	Efficient Enforcement of Security Policies Based on Tracking of Mobile Users. Lecture Notes in Computer Science, 2006, , 237-251.	1.0	14
71	Efficient Security Policy Enforcement in a Location Based Service Environment. Lecture Notes in Computer Science, 2007, , 61-76.	1.0	14
72	Extended Boolean Matrix Decomposition. , 2009, , .		13

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73	Analysis and visualization of subjectivity and polarity of Twitter location data. , 2018, , .		13
74	Unified Index for Mobile Object Data and Authorizations. Lecture Notes in Computer Science, 2005, , 80-97.	1.0	13
75	Weighted Rank-One Binary Matrix Factorization. , 2011, , .		13
76	Spatial outlier detection in heterogeneous neighborhoods. Intelligent Data Analysis, 2009, 13, 85-107.	0.4	12
77	A profile anonymization model for location-based services. Journal of Computer Security, 2011, 19, 795-833.	0.5	12
78	Role engineering. , 2012, , .		12
79	AMTRAC: An administrative model for temporal role-based access control. Computers and Security, 2013, 39, 201-218.	4.0	12
80	A Credential-Based Approach for Facilitating Automatic Resource Sharing Among Ad-Hoc Dynamic Coalitions. Lecture Notes in Computer Science, 2005, , 252-266.	1.0	12
81	Deploying ABAC policies using RBAC systems. Journal of Computer Security, 2019, 27, 483-506.	0.5	11
82	Security analysis of ABAC under an administrative model. IET Information Security, 2019, 13, 96-103.	1.1	11
83	Analyzing the Safety of Workflow Authorization Models. , 1999, , 43-57.		11
84	Resource sharing using UICDSâ„¢ framework for incident management. Transforming Government: People, Process and Policy, 2012, 6, 41-61.	1.3	10
85	On Optimal Employee Assignment in Constrained Role-Based Access Control Systems. ACM Transactions on Management Information Systems, 2017, 7, 1-24.	2.1	10
86	PolTree. , 2019, 2019, 25-35.		10
87	Supporting Delegation in Secure Workflow Management Systems. International Federation for Information Processing, 2004, , 190-202.	0.4	9
88	Efficient security policy enforcement for the mobile environment. Journal of Computer Security, 2008, 16, 439-475.	0.5	9
89	Attribute-Based Access Control for NoSQL Databases. , 2021, , .		9
90	Algorithms and Applications to Weighted Rank-one Binary Matrix Factorization. ACM Transactions on Management Information Systems, 2020, 11, 1-33.	2.1	9

#	ARTICLE	IF	CITATIONS
91	Handling Dynamic Changes in Decentralized Workflow Execution Environments. Lecture Notes in Computer Science, 2003, , 813-825.	1.0	8
92	Star-Tree: An Index Structure for Efficient Evaluation of Spatiotemporal Authorizations. , 2004, , 31-47.		8
93	Anonymization models for directional location based service environments. Computers and Security, 2010, 29, 59-73.	4.0	8
94	Using QR codes for enhancing the scope of digital government services. , 2012, , .		8
95	Community based emergency response. , 2013, , .		8
96	A side-channel attack on smartphones: Deciphering key taps using built-in microphones. Journal of Computer Security, 2018, 26, 255-281.	0.5	8
97	HyPE: A Hybrid Approach toward Policy Engineering in Attribute-Based Access Control. IEEE Letters of the Computer Society, 2018, 1, 25-29.	1.1	8
98	An Administrative Model for Spatio-Temporal Role Based Access Control. Lecture Notes in Computer Science, 2013, , 375-389.	1.0	8
99	Spatiotemporal Access Control Enforcement under Uncertain Location Estimates. Lecture Notes in Computer Science, 2009, , 159-174.	1.0	8
100	Collusion Set Detection Through Outlier Discovery. Lecture Notes in Computer Science, 2005, , 1-13.	1.0	7
101	SemDiff. International Journal on Semantic Web and Information Systems, 2006, 2, 1-32.	2.2	7
102	PEER. International Journal of E-Planning Research, 2015, 4, 29-46.	3.0	7
103	Enabling the Deployment of ABAC Policies in RBAC Systems. Lecture Notes in Computer Science, 2018, 10980, 51-68.	1.0	7
104	An Optimization Model for the Extended Role Mining Problem. Lecture Notes in Computer Science, 2011, , 76-89.	1.0	7
105	Privacy-Preserving Subgraph Discovery. Lecture Notes in Computer Science, 2012, , 161-176.	1.0	7
106	Attacking Image Based CAPTCHAs Using Image Recognition Techniques. Lecture Notes in Computer Science, 2012, , 327-342.	1.0	7
107	Minimizing Organizational User Requirement while Meeting Security Constraints. ACM Transactions on Management Information Systems, 2015, 6, 1-25.	2.1	7
108	Uniform Indexing for Geospatial Data and Authorizations. IFIP Advances in Information and Communication Technology, 2003, , 207-218.	0.5	7

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109	A theoretical formulation for degrees of isolation in databases. Information and Software Technology, 1997, 39, 47-53.	3.0	6
110	Customized geospatial workflows for e-government services. , 2001, , .		6
111	Self-manifestation of composite multimedia objects to satisfy security constraints. , 2003, , .		6
112	An Administrative Model for Collaborative Management of ABAC Systems and Its Security Analysis. , 2016, , .		6
113	Deciphering Text from Touchscreen Key Taps. Lecture Notes in Computer Science, 2016, , 3-18.	1.0	6
114	Using Gini Impurity to Mine Attribute-based Access Control Policies with Environment Attributes. , 2018, 2018, 213-215.		6
115	Policy Adaptation in Hierarchical Attribute-based Access Control Systems. ACM Transactions on Internet Technology, 2019, 19, 1-24.	3.0	6
116	ABACaaS. , 2019, , .		6
117	A Role-Based Administrative Model for Administration of Heterogeneous Access Control Policies and its Security Analysis. Information Systems Frontiers, 0, , 1.	4.1	6
118	Ontology-Guided Change Detection to the Semantic Web Data. Lecture Notes in Computer Science, 2004, , 624-638.	1.0	6
119	Semantic Feature Selection for Object Discovery in High-Resolution Remote Sensing Imagery. , 2007, , 71-83.		6
120	Security Analysis of Unified Access Control Policies. Communications in Computer and Information Science, 2020, , 126-146.	0.4	6
121	Multilevel secure transaction processing1. Journal of Computer Security, 2001, 9, 165-195.	0.5	5
122	Semantics-aware security policy specification for the semantic web data. International Journal of Information and Computer Security, 2010, 4, 52.	0.2	5
123	Managing Multi-dimensional Multi-granular Security Policies Using Data Warehousing. Lecture Notes in Computer Science, 2015, , 221-235.	1.0	5
124	Policy Adaptation in Attribute-Based Access Control for Inter-Organizational Collaboration. , 2017, , .		5
125	Enabling Workforce Optimization in Constrained Attribute-Based Access Control Systems. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1901-1913.	3.2	5
126	Incremental Maintenance of ABAC Policies. , 2021, 2021, 185-196.		5

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127	An Attribute Graph Based Approach to Map Local Access Control Policies to Credential Based Access Control Policies. Lecture Notes in Computer Science, 2005, , 134-147.	1.0	5
128	Migrating from DAC to RBAC. Lecture Notes in Computer Science, 2015, , 69-84.	1.0	5
129	Protecting Privacy from Continuous High-Resolution Satellite Surveillance. International Federation for Information Processing, 2002, , 233-244.	0.4	4
130	An Access Scheduling Tree to Achieve Optimal Freshness in Local Repositories. Lecture Notes in Computer Science, 2003, , 227-236.	1.0	4
131	Secure interoperation for effective data mining in border control and homeland security applications. , 2006, , .		4
132	Statistical Database Auditing Without Query Denial Threat. INFORMS Journal on Computing, 2015, 27, 20-34.	1.0	4
133	A Distributed Coalition Service Registry for Ad-Hoc Dynamic Coalitions: A Service-Oriented Approach. Lecture Notes in Computer Science, 2006, , 209-223.	1.0	4
134	Role Mining in the Presence of Separation of Duty Constraints. Lecture Notes in Computer Science, 2015, , 98-117.	1.0	4
135	Analysis of TRBAC with Dynamic Temporal Role Hierarchies. Lecture Notes in Computer Science, 2013, , 297-304.	1.0	4
136	Selective View Materialization in a Spatial Data Warehouse. Lecture Notes in Computer Science, 2005, , 157-167.	1.0	3
137	Panel on role engineering. , 2008, , .		3
138	An efficient online auditing approach to limit private data disclosure. , 2009, , .		3
139	UICDS-based information sharing among emergency response application systems. , 2011, , .		3
140	Temporal RBAC Security Analysis Using Logic Programming in the Presence of Administrative Policies. Lecture Notes in Computer Science, 2014, , 129-148.	1.0	3
141	Policy Mining: A Bottom-Up Approach toward a Model Based Firewall Management. Lecture Notes in Computer Science, 2013, , 133-147.	1.0	3
142	Cascaded Star: A Hyper-Dimensional Model for a Data Warehouse. Lecture Notes in Computer Science, 2006, , 439-448.	1.0	3
143	VisMAP: Visual Mining of Attribute-Based Access Control Policies. Lecture Notes in Computer Science, 2019, , 79-98.	1.0	3
144	Developing Machine Learning Models to Automate News Classification. , 2020, , .		3

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145	Editorsâ€™ message for the special issue on security. International Journal on Digital Libraries, 2004, 4, 137-138.	1.1	2
146	A unified index structure for efficient enforcement of spatiotemporal authorisations. International Journal of Information and Computer Security, 2010, 4, 118.	0.2	2
147	Privacy-preserving trust verification. , 2010, , .		2
148	Generating Secure Images for CAPTCHAs through Noise Addition. , 2015, , .		2
149	Using classification for role-based access control management. International Journal of Technology, Policy and Management, 2016, 16, 45.	0.1	2
150	Central Attribute Authority (CAA): A Vision for Seamless Sharing of Organizational Resources. , 2019, , .		2
151	Optimal Employee Recruitment in Organizations under Attribute-Based Access Control. ACM Transactions on Management Information Systems, 2021, 12, 1-24.	2.1	2
152	An Ontology-Guided Approach to Change Detection of the Semantic Web Data. Lecture Notes in Computer Science, 2006, , 130-157.	1.0	2
153	Achieving Stricter Correctness Requirements in Multilevel Secure Database Management Systems*. Journal of Computer Security, 1993, 2, 311-351.	0.5	1
154	Automating the Delivery of Governmental Business Services Through Workflow Technology. The Kluwer International Series on Advances in Database Systems, 2002, , 69-84.	1.1	1
155	Semantically enhanced enforcement of mobile consumer's privacy preferences. , 2006, , .		1
156	Efficiently enforcing spatiotemporal access control under uncertain location information. Journal of Computer Security, 2011, 19, 607-637.	0.5	1
157	Panel on granularity in access control. , 2013, , .		1
158	Towards designing robust CAPTCHAs. Journal of Computer Security, 2018, 26, 731-760.	0.5	1
159	Analyzing social media messages of public sector organizations utilizing sentiment analysis and topic modeling. Information Polity, 2021, 26, 375-390.	0.5	1
160	Preventing Unauthorized Data Flows. Lecture Notes in Computer Science, 2017, , 41-62.	1.0	1
161	Security, Privacy and Trust for Responsible Innovations and Governance. , 2020, , .		1
162	Citizen-to-Citizen Resource Sharing in Emergency Response. Advances in Civil and Industrial Engineering Book Series, 2018, , 130-164.	0.2	1

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163	Risk Based Access Control Using Classification. , 2013, , 79-95.		1
164	Policy Reconciliation and Migration in Attribute Based Access Control. Lecture Notes in Computer Science, 2019, , 99-120.	1.0	1
165	Constituent-centric municipal government coalition portal. , 2006, , .		0
166	Challenges in eGovernment technology transfer. , 2006, , .		0
167	Information sharing infrastructure for pharmaceutical supply chain management in emergency response. , 2010, , .		0
168	Structure-aware graph anonymization. Web Intelligence and Agent Systems, 2012, 10, 193-208.	0.4	0
169	Efficient Evaluation of Authorizations for Video Data. , 2016, , .		0
170	Social Media Communication of Public Sector Organizations. , 2019, , .		0
171	Preview: Optimizing View Materialization Cost in Spatial Data Warehouses. Lecture Notes in Computer Science, 2006, , 45-54.	1.0	0
172	Chapter 14 Government Agency Interoperation in Security Applications. Handbooks in Information Systems, 2007, , 323-347.	0.5	0
173	Privacy, Profiling, Targeted Marketing, and Data Mining. , 2007, , 117-131.		0
174	Security Models, Geospatial. , 2008, , 1028-1036.		0
175	Geospatial Authorizations, Efficient Enforcement. , 2008, , 379-385.		0
176	Security Models, Geospatial. , 2016, , 1-11.		0
177	Security Models, Geospatial. , 2017, , 1850-1860.		0
178	Geospatial Authorizations, Efficient Enforcement. , 2017, , 730-738.		0
179	PEER. , 2019, , 541-559.		0
180	Citizen-to-Citizen Resource Sharing in Emergency Response. , 2019, , 578-605.		0

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181	Visual Analytics for Global Migration Policy Discovery and NGO Collaboration. , 2020, , .		0
182	Enabling Attribute-Based Access Control in Linux Kernel. , 2022, , .		0
183	Contemporaneous Update and Enforcement of ABAC Policies. , 2022, , .		0