Eduardo Fernandez-Medina

List of Publications by Year
in descending order

132	2,662	279487	223531
papers	citations	23 h-index	46 g-index

137	137	137	1401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An analysis of security issues for cloud computing. Journal of Internet Services and Applications, 2013, 4, 5.	1.6	450
2	A BPMN Extension for the Modeling of Security Requirements in Business Processes. IEICE Transactions on Information and Systems, 2007, E90-D, 745-752.	0.4	191
3	A common criteria based security requirements engineering process for the development of secure information systems. Computer Standards and Interfaces, 2007, 29, 244-253.	3.8	164
4	A systematic review of security requirements engineering. Computer Standards and Interfaces, 2010, 32, 153-165.	3.8	140
5	Developing secure data warehouses with a UML extension. Information Systems, 2007, 32, 826-856.	2.4	77
6	Semi-formal transformation of secure business processes into analysis class and use case models: An MDA approach. Information and Software Technology, 2010, 52, 945-971.	3.0	74
7	A Systematic Review and Comparison of Security Ontologies. , 2008, , .		73
8	Secure business process model specification through a UML 2.0 activity diagram profile. Decision Support Systems, 2011, 51, 446-465.	3.5	66
9	Access control and audit model for the multidimensional modeling of data warehouses. Decision Support Systems, 2006, 42, 1270-1289.	3.5	60
10	Security Analysis in the Migration to Cloud Environments. Future Internet, 2012, 4, 469-487.	2.4	51
11	Basis for an integrated security ontology according to a systematic review of existing proposals. Computer Standards and Interfaces, 2011, 33, 372-388.	3.8	49
12	Empirical evaluation of a cloud computing information security governance framework. Information and Software Technology, 2015, 58, 44-57.	3.0	47
13	Towards CIM to PIM Transformation: From Secure Business Processes Defined in BPMN to Use-Cases. Lecture Notes in Computer Science, 2007, , 408-415.	1.0	44
14	Applying a Security Requirements Engineering Process. Lecture Notes in Computer Science, 2006, , 192-206.	1.0	43
15	Security requirements engineering framework for software product lines. Information and Software Technology, 2010, 52, 1094-1117.	3.0	41
16	Main Issues in Big Data Security. Future Internet, 2016, 8, 44.	2.4	41
17	Designing secure databases. Information and Software Technology, 2005, 47, 463-477.	3.0	38
18	Towards a UML 2.0 Extension for the Modeling of Security Requirements in Business Processes. Lecture Notes in Computer Science, 2006, , 51-61.	1.0	35

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19	Secure information systems development â€“ a survey and comparison. Computers and Security, 2005, 24, 308-321.	4.0	31
20	Towards security requirements management for software product lines: A security domain requirements engineering process. Computer Standards and Interfaces, 2008, 30, 361-371.	3.8	29
21	A UML 2.0 profile to define security requirements for Data Warehouses. Computer Standards and Interfaces, 2009, 31, 969-983.	3.8	29
22	An engineering process for developing Secure Data Warehouses. Information and Software Technology, 2009, 51, 1033-1051.	3.0	28
23	Secure Tropos framework for software product lines requirements engineering. Computer Standards and Interfaces, 2014, 36, 711-722.	3.8	26
24	Building a secure star schema in data warehouses by an extension of the relational package from CWM. Computer Standards and Interfaces, 2008, 30, 341-350.	3.8	24
25	Towards Obtaining Analysis-Level Class and Use Case Diagrams from Business Process Models. Lecture Notes in Computer Science, 2008, , 103-112.	1.0	23
26	Towards Comprehensive Requirement Analysis for Data Warehouses: Considering Security Requirements. , 2008, , .		23
27	Model-driven multidimensional modeling of secure data warehouses. European Journal of Information Systems, 2007, 16, 374-389.	5.5	22
28	Security patterns and requirements for internetâ€based applications. Internet Research, 2006, 16, 519-536.	2.7	21
29	Analysis of Secure Mobile Grid Systems: A systematic approach. Information and Software Technology, 2010, 52, 517-536.	3.0	21
30	Security requirement with a UML 2.0 profile. , 2006, , .		20
31	Web services enterprise security architecture. , 2005, , .		18
32	Model driven development of secure XML databases. SIGMOD Record, 2006, 35, 22-27.	0.7	17
33	Extending OCL for Secure Database Development. Lecture Notes in Computer Science, 2004, , 380-394.	1.0	17
34	A comparison of software design security metrics. , 2010, , .		16
35	A comparison of the Common Criteria with proposals of information systems security requirements. , 2006, , .		15
36	Analysis-Level Classes from Secure Business Processes Through Model Transformations. Lecture Notes in Computer Science, 2007, , 104-114.	1.0	14

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37	The practical application of a process for eliciting and designing security in web service systems. Information and Software Technology, 2009, 51, 1712-1738.	3.0	14
38	Enterprise security pattern: A model-driven architecture instance. Computer Standards and Interfaces, 2014, 36, 748-758.	3.8	14
39	Development of an Expert System for the Evaluation of Studentsâ€™ Curricula on the Basis of Competencies. Future Internet, 2016, 8, 22.	2.4	14
40	Reusable security use cases for mobile grid environments. , 2009, , .		13
41	Enterprise security pattern: a new type of security pattern. Security and Communication Networks, 2014, 7, 1670-1690.	1.0	13
42	A set of QVT relations to transform PIM to PSM in the Design of Secure Data Warehouses. , 2007, , .		12
43	CIM to PIM Transformation: A Reality. , 2008, , 1239-1249.		12
44	A Personal Data Audit Method through Requirements Engineering. Computer Standards and Interfaces, 2010, 32, 166-178.	3.8	12
45	Secure Development of Big Data Ecosystems. IEEE Access, 2019, 7, 96604-96619.	2.6	12
46	Extending UML for Designing Secure Data Warehouses. Lecture Notes in Computer Science, 2004, , 217-230.	1.0	11
47	Representing security and audit rules for data warehouses at the logical level by using the common warehouse metamodel. , 2006, , .		11
48	A study of security architectural patterns. , 2006, , .		11
49	PSecGCM: Process for the Development of Secure Grid Computing based Systems with Mobile Devices. , 2008, , .		11
50	Security services architecture for Secure Mobile Grid Systems. Journal of Systems Architecture, 2011, 57, 240-258.	2.5	11
51	The Importance of the Security Culture in SMEs as Regards the Correct Management of the Security of Their Assets. Future Internet, 2016, 8, 30.	2.4	11
52	Managing cybersecurity risks of cyber-physical systems: The MARISMA-CPS pattern. Computers in Industry, 2022, 142, 103715.	5.7	11
53	A Framework for the Development of Secure Data Warehouses based on MDA and QVT. , 2007, , .		10
54	A Comparative Study of Proposals for Establishing Security Requirements for the Development of Secure Information Systems. Lecture Notes in Computer Science, 2006, , 1044-1053.	1.0	10

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55	Capturing Security Requirements in Business Processes Through a UML 2.0 Activity Diagrams Profile. Lecture Notes in Computer Science, 2006, , 32-42.	1.0	10
56	Security Requirements Variability for Software Product Lines. , 2008, , .		9
57	Model driven development of secure XML data warehouses. , 2010, , .		9
58	Systematic design of secure Mobile Grid systems. Journal of Network and Computer Applications, 2011, 34, 1168-1183.	5.8	9
59	Development of Secure XML Data Warehouses with QVT. Information and Software Technology, 2013, 55, 1651-1677.	3.0	9
60	An architecture for automatically developing secure OLAP applications from models. Information and Software Technology, 2015, 59, 1-16.	3.0	9
61	Improving Incident Response in Big Data Ecosystems by Using Blockchain Technologies. Applied Sciences (Switzerland), 2020, 10, 724.	1.3	9
62	Applicability of Security Patterns. Lecture Notes in Computer Science, 2010, , 672-684.	1.0	9
63	Application of QVT for the Development of Secure Data Warehouses: A case study. , 2007, , .		8
64	M-BPSec: A Method for Security Requirement Elicitation from a UML 2.0 Business Process Specification. Lecture Notes in Computer Science, 2007, , 106-115.	1.0	8
65	Automatic Generation of Secure Multidimensional Code for Data Warehouses: An MDA Approach. Lecture Notes in Computer Science, 2008, , 1052-1068.	1.0	8
66	Towards a Modernization Process for Secure Data Warehouses. Lecture Notes in Computer Science, 2009, , 24-35.	1.0	8
67	A Security Pattern for Key-Value NoSQL Database Authorization. , 2018, , .		8
68	Improving security in NoSQL document databases through model-driven modernization. Knowledge and Information Systems, 2021, 63, 2209-2230.	2.1	8
69	CARMEN: A framework for the verification and diagnosis of the specification of security requirements in cyber-physical systems. Computers in Industry, 2021, 132, 103524.	5.7	8
70	Obtaining Security Requirements for a Mobile Grid System. International Journal of Grid and High Performance Computing, 2009, 1, 1-17.	0.7	8
71	Implementing Multidimensional Security into OLAP Tools. , 2008, , .		7
72	ISGcloud: a Security Governance Framework for Cloud Computing. Computer Journal, 2015, 58, 2233-2254.	1.5	7

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73	Designing Secure Databases for OLS. Lecture Notes in Computer Science, 2003, , 886-895.	1.0	6
74	Security Requirements Engineering Process for Software Product Lines: A Case Study. , 2008, , .		6
75	Online professional networking: An effective interactive tool. Poultry Science, 2009, 88, 2014-2015.	1.5	6
76	Automated Support for Security Requirements Engineering in Software Product Line Domain Engineering. , 2009, , .		6
77	A practical application of our MDD approach for modeling secure XML data warehouses. Decision Support Systems, 2012, 52, 899-925.	3.5	6
78	Eliciting Security Requirements for Business Processes of Legacy Systems. Lecture Notes in Business Information Processing, 2015, , 91-107.	0.8	6
79	Applying a UML Extension to Build Use Cases Diagrams in a Secure Mobile Grid Application. Lecture Notes in Computer Science, 2009, , 126-136.	1.0	6
80	Using UML Packages for Designing Secure Data Warehouses. Lecture Notes in Computer Science, 2006, , 1024-1034.	1.0	5
81	An extension of the Relational Metamodel of CWM to represent Secure Data Warehouses at the Logical Level. IEEE Latin America Transactions, 2008, 6, 355-362.	1.2	5
82	Applying an MDA-Based Approach to Consider Security Rules in the Development of Secure DWs. , 2009, , .		5
83	Defining and transforming security rules in an MDA approach for DWs. International Journal of Business Intelligence and Data Mining, 2010, 5, 116.	0.2	5
84	A Framework for Secure Migration Processes of Legacy Systems to the Cloud. Lecture Notes in Business Information Processing, 2015, , 507-517.	0.8	5
85	MARISMA-BiDa pattern: Integrated risk analysis for big data. Computers and Security, 2021, 102, 102155.	4.0	5
86	Security Culture in Small and Medium-Size Enterprise. Communications in Computer and Information Science, 2010, , 315-324.	0.4	5
87	An MDA approach for developing secure OLAP applications: Metamodels and transformations. Computer Science and Information Systems, 2015, 12, 541-565.	0.7	5
88	Representing levels of abstraction to facilitate the secure multidimensional modeling. , 2006, , .		4
89	Including Security Rules Support in an MDA Approach for Secure DWs. , 2009, , .		4
90	Modelling secure cloud systems based on system requirements. , 2015, , .		4

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91	Methodology for Dynamic Analysis and Risk Management on ISO27001. IEEE Latin America Transactions, 2016, 14, 2897-2911.	1.2	4
92	Developing web services security systems: a case study. International Journal of Web Engineering and Technology, 2006, 2, 292.	0.1	3
93	A Security Requirements Engineering Process in Practice. IEEE Latin America Transactions, 2007, 5, 211-217.	1.2	3
94	Towards framework definition to obtain secure business process from legacy information systems. , 2009, , .		3
95	Managing the Asset Risk of SMEs. , 2010, , .		3
96	Applying the Action-Research Method to Develop a Methodology to Reduce the Installation and Maintenance Times of Information Security Management Systems. Future Internet, 2016, 8, 36.	2.4	3
97	Design Activity in the Process of Migrating Security Features to Cloud. IEEE Latin America Transactions, 2016, 14, 2846-2852.	1.2	3
98	Incorporating security issues in the information systems design. , 0, , .		2
99	Practical approach of a secure management system based on ISO/IEC 17799. , 2006, , .		2
100	State of standards in the information systems security area. Computer Standards and Interfaces, 2008, 30, 339-340.	3.8	2
101	Secure Business Processes defined through a UML 2.0 extension. IEEE Latin America Transactions, 2008, 6, 339-346.	1.2	2
102	How to implement multidimensional security into OLAP tools. International Journal of Business Intelligence and Data Mining, 2008, 3, 255.	0.2	2
103	Towards a UML Extension of Reusable Secure Use Cases for Mobile Grid Systems. IEICE Transactions on Information and Systems, 2011, E94-D, 243-254.	0.4	2
104	Content related to Computing Security on Computer Engineering Degree according to International Professional Certificates. IEEE Latin America Transactions, 2015, 13, 1951-1960.	1.2	2
105	Modernizing Secure OLAP Applications with a Model-Driven Approach. Computer Journal, 2015, 58, 2351-2367.	1.5	2
106	Metrics of Password Management Policy. Lecture Notes in Computer Science, 2006, , 1013-1023.	1.0	2
107	Definition and Verification of Security Configurations of Cyber-Physical Systems. Lecture Notes in Computer Science, 2020, , 135-155.	1.0	2
108	Building ISMS through the Reuse of Knowledge. Lecture Notes in Computer Science, 2010, , 190-201.	1.0	2

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109	Web Services-Based Security Requirement Elicitation. IEICE Transactions on Information and Systems, 2007, E90-D, 1374-1387.	0.4	2
110	Security Requirements Management in Software Product Line Engineering. Communications in Computer and Information Science, 2009, , 250-263.	0.4	2
111	PWSSEC: Secure Web Services-based Systems Development Process. IEEE Latin America Transactions, 2006, 4, 115-122.	1.2	1
112	An approach based on i* for security requirement analysis in data warehouses. IEEE Latin America Transactions, 2008, 6, 282-289.	1.2	1
113	Applying a Security Domain Requirements Engineering Process for Software Product Lines. IEEE Latin America Transactions, 2008, 6, 298-305.	1.2	1
114	LOPD Compliance and ISO 27001 legal requirements in the Health Sector. IEEE Latin America Transactions, 2012, 10, 1824-1837.	1.2	1
115	Obtaining secure BPEL from Secure Business Process specified with BPMN. IEEE Latin America Transactions, 2014, 12, 315-320.	1.2	1
116	Competency Assessment of the Engineering Software for the Curricular Orientation of Students. IEEE Latin America Transactions, 2016, 14, 2823-2837.	1.2	1
117	Application of security reference architecture to Big Data ecosystems in an industrial scenario. Software - Practice and Experience, 2020, 50, 1520-1538.	2.5	1
118	Data Warehouse Security. , 2009, , 675-679.		1
119	A Security Requirements Engineering Tool for Domain Engineering in Software Product Lines. , 2011, , 73-92.		1
120	ISMS Building for SMEs through the Reuse of Knowledge. , 0, , 394-419.		1
121	Defining Security Architectural Patterns Based on Viewpoints. , 2007, , 262-272.		1
122	Security policies by design in NoSQL document databases. Journal of Information Security and Applications, 2022, 65, 103120.	1.8	1
123	Management of scorecards and metrics to manage security in SMEs. , 2009, , .		0
124	MARISMA-BiDa Pattern: Integrated Risk Analysis for Big Data. ColecciÃ³n Jornadas Y Congresos, 0, , .	0.0	0
125	Designing Secure Data Warehouses. , 2006, , 295-310.		0
126	An MDA Compliant Approach for Designing Secure Data Warehouses. , 2009, , 495-503.		0

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127	Analysis of Application of Security Patterns to Build Secure Systems. Lecture Notes in Computer Science, 2011, , 652-659.	1.0	0
128	Developing Secure Business Processes. , 2012, , 146-169.		0
129	ISMS Building for SMEs through the Reuse of Knowledge. , 2012, , 90-116.		0
130	Data Warehouse Security. , 2017, , 1-6.		0
131	Data Warehouse Security. , 2018, , 897-902.		0
132	Identifying Secure Mobile Grid Use Cases. , 0, , 180-207.		0