Antonio Ruiz-CortÃ©s

List of Publications by Year
in descending order

159 papers	4,906 citations	172443 29 h-index	114455 63 g-index
167 all docs	167 docs citations	167 times ranked	2446 citing authors

#	Article	IF	Citations
1	Automated analysis of feature models 20 years later: A literature review. Information Systems, 2010, 35, 615-636.	3.6	983
2	A Survey on Metamorphic Testing. IEEE Transactions on Software Engineering, 2016, 42, 805-824.	5.6	334
3	Automated Reasoning on Feature Models. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2005, , 491-503.	0.3	279
4	Predictive Monitoring of Business Processes: A Survey. IEEE Transactions on Services Computing, 2018, 11, 962-977.	4.6	144
5	Metaheuristic optimization frameworks: a survey and benchmarking. Soft Computing, 2012, 16, 527-561.	3.6	142
6	An overview of Dynamic Software Product Line architectures and techniques: Observations from research and industry. Journal of Systems and Software, 2014, 91, 3-23.	4.5	139
7	Automated analysis of feature models. Communications of the ACM, 2006, 49, 45-47.	4.5	128
8	Automated error analysis for the agilization of feature modeling. Journal of Systems and Software, 2008, 81, 883-896.	4.5	103
9	On the definition and design-time analysis of process performance indicators. Information Systems, 2013, 38, 470-490.	3.6	103
10	Metamorphic Testing of RESTful Web APIs. IEEE Transactions on Software Engineering, 2018, 44, 1083-1099.	5.6	90
11	Automated Diagnosis of Product-Line Configuration Errors in Feature Models. , 2008, , .		86
12	Automated diagnosis of feature model configurations. Journal of Systems and Software, 2010, 83, 1094-1107.	4.5	79
13	Multi-objective test case prioritization in highly configurable systems: A case study. Journal of Systems and Software, 2016, 122, 287-310.	4.5	70
14	Evolutionary composition of QoS-aware web services: A many-objective perspective. Expert Systems With Applications, 2017, 72, 357-370.	7.6	67
15	BeTTy. , 2012, , .		66
16	Automated metamorphic testing on the analyses of feature models. Information and Software Technology, 2011, 53, 245-258.	4.4	62
17	QoS-aware web services composition using GRASP with Path Relinking. Expert Systems With Applications, 2014, 41, 4211-4223.	7.6	60
18	IMPROVING THE AUTOMATIC PROCUREMENT OF WEB SERVICES USING CONSTRAINT PROGRAMMING. International Journal of Cooperative Information Systems, 2005, 14, 439-467.	0.8	56

#	Article	IF	Citations
19	FAMA Framework. , 2008, , .		56
20	Comprehensive Explanation of SLA Violations at Runtime. IEEE Transactions on Services Computing, 2014, 7, 168-183.	4.6	53
21	A Comparison of Test Case Prioritization Criteria for Software Product Lines. , 2014, , .		51
22	Automated analysis of feature models: Quo vadis?. Computing (Vienna/New York), 2019, 101, 387-433.	4.8	50
23	Using Java CSP Solvers in the Automated Analyses of Feature Models. Lecture Notes in Computer Science, 2006, , 399-408.	1.3	50
24	Defining Process Performance Indicators: An Ontological Approach. Lecture Notes in Computer Science, 2010, , 555-572.	1.3	48
25	Run-time prediction of business process indicators using evolutionary decision rules. Expert Systems With Applications, 2017, 87, 1-14.	7.6	46
26	Automated configuration support for infrastructure migration to the cloud. Future Generation Computer Systems, 2016, 55, 200-212.	7.5	43
27	Variability testing in the wild: the Drupal case study. Software and Systems Modeling, 2017, 16, 173-194.	2.7	38
28	Automated Merging of Feature Models Using Graph Transformations. Lecture Notes in Computer Science, 2008, , 489-505.	1.3	36
29	Quality-aware analysis in product line engineering with the orthogonal variability model. Software Quality Journal, 2012, 20, 519-565.	2.2	35
30	Improving semantic web services discovery using SPARQL-based repository filtering. Web Semantics, 2012, 17, 12-24.	2.9	35
31	RALph: A Graphical Notation for Resource Assignments in Business Processes. Lecture Notes in Computer Science, 2015, , 53-68.	1.3	35
32	Spectrum-Based Fault Localization in Model Transformations. ACM Transactions on Software Engineering and Methodology, 2018, 27, 1-50.	6.0	34
33	Specification and automated design-time analysis of the business process human resource perspective. Information Systems, 2015, 52, 55-82.	3.6	32
34	Using templates and linguistic patterns to define process performance indicators. Enterprise Information Systems, 2016, 10, 159-192.	4.7	30
35	Automated inference of likely metamorphic relations for model transformations. Journal of Systems and Software, 2018, 136, 188-208.	4.5	29
36	Elastic Smart Contracts in Blockchains. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1901-1912.	13.1	29

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37	RESTest: Black-Box Constraint-Based Testing of RESTful Web APIs. Lecture Notes in Computer Science, 2020, , 459-475.	1.3	29
38	Automated Test Data Generation on the Analyses of Feature Models: A Metamorphic Testing Approach. , 2010, , .		28
39	Visual ppinot: A Graphical Notation for Process Performance Indicators. Business and Information Systems Engineering, 2019, 61, 137-161.	6.1	27
40	Test coverage criteria for RESTful web APIs. , 2019, , .		25
41	Automated Analysis of Conflicts in WS-Agreement. IEEE Transactions on Services Computing, 2014, 7, 530-544.	4.6	23
42	Performance Metamorphic Testing: Motivation and Challenges. , 2017, , .		22
43	Modeling Service Level Agreements with Linked USDL Agreement. IEEE Transactions on Services Computing, 2017, 10, 52-65.	4.6	22
44	Priority-Based Human Resource Allocation in Business Processes. Lecture Notes in Computer Science, 2013, , 374-388.	1.3	22
45	A Quality-Aware Approach to Web Services Procurement. Lecture Notes in Computer Science, 2003, , 42-53.	1.3	21
46	Mutation testing on an object-oriented framework: An experience report. Information and Software Technology, 2011, 53, 1124-1136.	4.4	21
47	A Catalogue of Inter-parameter Dependencies in RESTful Web APIs. Lecture Notes in Computer Science, 2019, , 399-414.	1.3	21
48	An Analysis of RESTful APIs Offerings in the Industry. Lecture Notes in Computer Science, 2017, , 589-604.	1.3	21
49	RESTest: automated black-box testing of RESTful web APIs. , 2021, , .		20
50	An Hybrid, QoS-Aware Discovery of Semantic Web Services Using Constraint Programming. Lecture Notes in Computer Science, 2007, , 69-80.	1.3	20
51	Automated metamorphic testing of variability analysis tools. Software Testing Verification and Reliability, 2015, 25, 138-163.	2.0	19
52	FLAME: a formal framework for the automated analysis of software product lines validated by automated specification testing. Software and Systems Modeling, 2017, 16, 1049-1082.	2.7	19
53	Supporting requirements verification using XSLT. , 0, , .		17
54	Multi-agent system product lines. Communications of the ACM, 2006, 49, 82-84.	4.5	17

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55	Integrating semantic Web services ranking mechanisms using a common preference model. Knowledge-Based Systems, 2013, 49, 22-36.	7.1	17
56	A controlled experiment to evaluate the effects of mindfulness in software engineering. , 2014, , .		17
57	User-Centric Adaptation Analysis of Multi-Tenant Services. ACM Transactions on Autonomous and Adaptive Systems, 2016, 10, 1-26.	0.8	17
58	Performance metamorphic testing: A Proof of concept. Information and Software Technology, 2018, 98, 1-4.	4.4	17
59	Metamorphic testing of RESTful web APIs. , 2018, , .		17
60	Specification and Automated Analysis of Inter-Parameter Dependencies in Web APIs. IEEE Transactions on Services Computing, 2022, 15, 2342-2355.	4.6	17
61	Repairing syntax errors in LR parsers. ACM Transactions on Programming Languages and Systems, 2002, 24, 698-710.	2.1	16
62	Replication of Studies in Empirical Software Engineering: A Systematic Mapping Study, From 2013 to 2018. IEEE Access, 2020, 8, 26773-26791.	4.2	16
63	RAL: A High-Level User-Oriented Resource Assignment Language for Business Processes. Lecture Notes in Business Information Processing, 2012, , 50-61.	1.0	16
64	FaMa. , 2013, , 163-171.		16
65	Ferromagnetism in a New Manganese-Related Brownmillerite: La0.5Sr0.5MnO2.5. Chemistry - A European Journal, 2007, 13, 4246-4252.	3.3	15
66	A Model of User Preferences for Semantic Services Discovery and Ranking. Lecture Notes in Computer Science, 2010, , 1-14.	1.3	15
67	Automated generation of computationally hard feature models using evolutionary algorithms. Expert Systems With Applications, 2014, 41, 3975-3992.	7.6	15
68	Automated team selection and compliance checking in business processes. , 2015, , .		15
69	An experimental replication on the effect of the practice of mindfulness in conceptual modeling performance. Journal of Systems and Software, 2018, 136, 153-172.	4.5	15
70	Defining and Analysing Resource Assignments in Business Processes with RAL. Lecture Notes in Computer Science, 2011, , 477-486.	1.3	15
71	A Model-Driven Architecture Approach for Modeling, Specifying and Deploying Policies in Autonomous and Autonomic Systems. , 2006, , .		14
72	From Feature Models to Business Processes. , 2008, , .		14

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73	Edge and Cloud Pricing for the Sharing Economy. IEEE Internet Computing, 2017, 21, 78-84.	3.3	14
74	Defining Process Performance Indicators by Using Templates and Patterns. Lecture Notes in Computer Science, 2012, , 223-228.	1.3	13
75	User-centric adaptation of multi-tenant services: preference-based analysis for service reconfiguration. , 2014, , .		13
76	QoS-Aware Semantic Service Selection: An Optimization Problem. , 2008, , .		12
77	A Template-Based Approach to Describing Metamorphic Relations. , 2017, , .		12
78	A template-based approach for responsibility management in executable business processes. Enterprise Information Systems, 2018, 12, 550-586.	4.7	12
79	Automated Validation of Compensable SLAs. IEEE Transactions on Services Computing, 2021, 14, 1306-1319.	4.6	12
80	Deep Learning-Based Prediction of Test Input Validity for RESTful APIs. , 2021, , .		12
81	Metamorphic Relation Patterns for Query-Based Systems. , 2019, , .		11
82	The role of limitations and SLAs in the API industry. , 2019, , .		11
83	Building the Core Architecture of a NASA Multiagent System Product Line. , 2006, , 208-224.		11
84	Black-Box and White-Box Test Case Generation for RESTful APIs: Enemies or Allies?. , 2021, , .		11
85	Modeling NASA swarm-based systems: using agent-oriented software engineering and formal methods. Software and Systems Modeling, 2011, 10, 55-62.	2.7	10
86	Towards Process-Aware Cross-Organizational Human Resource Management. Lecture Notes in Business Information Processing, 2014, , 79-93.	1.0	10
87	Automated Resource Assignment in BPMN Models Using RACI Matrices. Lecture Notes in Computer Science, 2012, , 56-73.	1.3	10
88	Context-Aware Process Performance Indicator Prediction. IEEE Access, 2020, 8, 222050-222063.	4.2	10
89	Linked USDL Agreement: Effectively Sharing Semantic Service Level Agreements on the Web. , 2015, , .		9
90	Effects of Mindfulness on Conceptual Modeling Performance: a Series of Experiments. IEEE Transactions on Software Engineering, 2020, , 1-1.	5.6	9

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91	Extending WS-Agreement to Support Automated Conformity Check on Transport and Logistics Service Agreements. Lecture Notes in Computer Science, 2013, , 567-574.	1.3	9
92	Functional testing of feature model analysis tools: a test suite. IET Software, 2011, 5, 70.	2.1	8
93	SALMonADA: A platform for monitoring and explaining violations of WS-agreement-compliant documents. , 2012, , .		8
94	FaMa-OVM. , 2012, , .		8
95	Automated Analysis of Stateful Feature Models. , 2013, , 375-380.		8
96	Measuring Performance in Knowledge-intensive Processes. ACM Transactions on Internet Technology, 2019, 19, 1-26.	4.4	8
97	Modelling Service Level Agreements for Business Process Outsourcing Services. Lecture Notes in Computer Science, 2015, , 485-500.	1.3	8
98	Interorganizational Business Modeling: an Approach for Traceability of Goals, Organizational Models and Business Processes. IEEE Latin America Transactions, 2011, 9, 847-854.	1.6	7
99	Automating SLA-Driven API Development with SLA4OAI. Lecture Notes in Computer Science, 2019, , 20-35.	1.3	7
100	Towards a Formal Specification of SLAs with Compensations. Lecture Notes in Computer Science, 2014, , 295-312.	1.3	7
101	Using Formal Methods and Agent-Oriented Software Engineering for Modeling NASA Swarm-Based Systems. , 2007, , .		6
102	Enabling the Evolution of Service-Oriented Solutions Using an UML2 Profile and a Reference Petri Nets Execution Platform. , 2008, , .		6
103	SLAWs: Towards a Conceptual Architecture for SLA Enforcement. , 2008, , .		6
104	Automated variability analysis and testing of an E-commerce site.. , 2014, , .		6
105	Governify for APIs: SLA-driven ecosystem for API governance. , 2019, , .		6
106	Identifying Variability in Process Performance Indicators. Lecture Notes in Business Information Processing, 2016, , 91-107.	1.0	6
107	Enriching Decision Making with Data-Based Thresholds of Process-Related KPIs. Lecture Notes in Computer Science, 2017, , 193-209.	1.3	6
108	An Initial Approach to Explaining SLA Inconsistencies. Lecture Notes in Computer Science, 2008, , 394-406.	1.3	6

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109	Designing Business Processes with History-Aware Resource Assignments. Lecture Notes in Business Information Processing, 2013, , 101-112.	1.0	6
110	ARTE: Automated Generation of Realistic Test Inputs for Web APIs. IEEE Transactions on Software Engineering, 2023, 49, 348-363.	5.6	6
111	Building and implementing policies in autonomous and autonomic systems using MaCMAS. Innovations in Systems and Software Engineering, 2007, 3, 17-31.	2.1	5
112	First International Workshop on Analysis of Software Product Lines (ASPL'08). , 2008, , .		5
113	PPINOT Tool Suite: A Performance Management Solution for Process-Oriented Organisations. Lecture Notes in Computer Science, 2013, , 675-678.	1.3	5
114	The Drupal framework. , 2014, , .		5
115	Automated Analysis of Cloud Offerings for Optimal Service Provisioning. Lecture Notes in Computer Science, 2017, , 331-339.	1.3	5
116	Early Evaluation of Mobile Applicationsâ€™ Resource Consumption and Operating Costs. IEEE Access, 2020, 8, 146648-146665.	4.2	5
117	Bluejay: A Cross-Tooling Audit Framework For Agile Software Teams. , 2021, , .		5
118	Redefining a Process Engine as a Microservice Platform. Lecture Notes in Business Information Processing, 2017, , 252-263.	1.0	5
119	A framework for classifying and comparing web services procurement platforms. , 0, , .		4
120	Representing Runtime Variability in Business-Driven Development Systems. , 2008, , .		4
121	An Elasticity-Aware Governance Platform for Cloud Service Delivery. , 2016, , .		4
122	Eagle: a team practices audit framework for agile software development. , 2019, , .		4
123	A Mashup-Based Framework for Business Process Compliance Checking. IEEE Transactions on Services Computing, 2022, 15, 1564-1577.	4.6	4
124	A Flexible Billing Life Cycle for Cloud Services Using Augmented Customer Agreements. IEEE Access, 2021, 9, 44374-44389.	4.2	4
125	Updating Prediction Models for Predictive Process Monitoring. Lecture Notes in Computer Science, 2022, , 304-318.	1.3	4
126	Aspect-oriented interaction in multi-organisational web-based systems. Computer Networks, 2003, 41, 385-406.	5.1	3

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127	Narrowing the Business-IT Gap in Process Performance Measurement. Lecture Notes in Computer Science, 2016, , 543-557.	1.3	3
128	Exploring Features of a Full-Coverage Integrated Solution for Business Process Compliance. Lecture Notes in Computer Science, 2011, , 218-227.	1.3	3
129	Temporal-Awareness in SLAs: Why Should We Be Concerned?. Lecture Notes in Computer Science, 2009, , 165-173.	1.3	3
130	FAST-SE: An ESB Based Framework for SLA Trading. Lecture Notes in Computer Science, 2009, , 643-644.	1.3	3
131	SLA-aware operational efficiency in AI-enabled service chains: challenges ahead. Information Systems and E-Business Management, 2022, 20, 199-221.	3.7	3
132	Representing Runtime Variability in Business-Driven Development Systems. , 2008, , .		2
133	Multi-user variability configuration: A game theoretic approach. , 2013, , .		2
134	Programming Elasticity and Commitment in Dynamic Processes. IEEE Internet Computing, 2015, 19, 68-74.	3.3	2
135	A New Framework for Defining Realistic SLAs: An Evidence-Based Approach. Lecture Notes in Business Information Processing, 2017, , 19-35.	1.0	2
136	On the Relationships Between Decision Management and Performance Measurement. Lecture Notes in Computer Science, 2018, , 311-326.	1.3	2
137	Design Patterns for Board-Based Collaborative Work Management Tools. Lecture Notes in Computer Science, 2021, , 177-192.	1.3	2
138	Productivity Challenges in Digital Transformation and its Implications for Workstream Collaboration Tools. , 0, , .		2
139	A First Approach to Build Product Lines of Multi-organizational Web Based Systems (MOWS). Lecture Notes in Computer Science, 2006, , 91-98.	1.3	2
140	On User Preferences and Utility Functions in Selection: A Semantic Approach. Lecture Notes in Computer Science, 2009, , 105-114.	1.3	2
141	ELeCTRA: Induced Usage Limitations Calculation in RESTful APIs. Lecture Notes in Computer Science, 2019, , 435-438.	1.3	2
142	Quality in Use Evaluation of a GraphQL Implementation. Lecture Notes in Networks and Systems, 2022, , 15-27.	0.7	2
143	Automated Analysis of Feature Models. , 2019, , .		1
144	Virtual Environment for Evaluating the QoS of Distributed Mobile Applications. , 2021, , .		1

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145	Modeling Variability in the Performance Perspective of Business Processes. IEEE Access, 2021, 9, 111683-111703.	4.2	1
146	ISA packager. , 2011, , .		1
147	Dealing with Complexity in Agent-Oriented Software Engineering: The Importance of Interactions. , 2012, , 191-214.		1
148	Introducing a Mashup-Based Approach for Design-Time Compliance Checking in Business Processes. Lecture Notes in Computer Science, 2012, , 337-350.	1.3	1
149	Business Process Performance Measurement. , 2018, , 1-7.		1
150	An Elasticity Framework for Smart Contracts. , 2021, , .		1
151	Multi-Party Coordination in the Context of MOWS. Programming and Computer Software, 2002, 28, 280-289.	0.9	0
152	WS-Governance Tooling: SOA Governance Policies Analysis and Authoring. , 2011, , .		0
153	Defeasible Argumentation of Software Architectures. , 2016, , .		0
154	Artifact: Virtual Environment for Evaluating the QoS of Distributed Mobile Applications. , 2021, , .		0
155	WS-Governance: A Policy Language for SOA Governance. Lecture Notes in Computer Science, 2011, , 280-296.	1.3	0
156	iAgree Studio: A Platform to Edit and Validate WSâ€“Agreement Documents. Lecture Notes in Computer Science, 2013, , 696-699.	1.3	0
157	SLA-Driven Governance for RESTful Systems. Lecture Notes in Computer Science, 2018, , 352-356.	1.3	0
158	Business Process Performance Measurement. , 2019, , 416-422.		0
159	Towards an Automated Management of Well-Being Goals in Nursing Homes. Communications in Computer and Information Science, 2020, , 253-258.	0.5	0