

Daniel Amyot

List of Publications by Year in descending order

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176
papers

2,868
citations

304602

22
h-index

254106

43
g-index

187
all docs

187
docs citations

187
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	Key factors of clinicians' acceptance of CPOE system and their link to change management. Informatics for Health and Social Care, 2022, 47, 326-345.	1.4	1
2	GoRIM: a model-driven method for enhancing regulatory intelligence. Software and Systems Modeling, 2022, 21, 1613-1641.	2.2	3
3	Goal and Feature Model Optimization for the Design and Self-Adaptation of Socio-Cyber-Physical Systems. Journal of Integrated Design and Process Science, 2022, , 1-37.	0.2	0
4	Data Preprocessing Method and API for Mining Processes from Cloud-Based Application Event Logs. Algorithms, 2022, 15, 180.	1.2	2
5	Goal and Feature Model Optimization for the Design and Self-Adaptation of Socio-Cyber-Physical Systems. Journal of Integrated Design and Process Science, 2022, 25, 141-177.	0.2	0
6	A Hitchhiker's Guide to Model-Driven Engineering for Data-Centric Systems. IEEE Software, 2021, 38, 71-84.	2.1	19
7	Social Requirements Models for Services. Lecture Notes in Computer Science, 2021, , 100-108.	1.0	0
8	A Game-theoretic approach to analyze interacting actors in GRL goal models. Requirements Engineering, 2021, 26, 399-422.	2.1	1
9	Requirements Engineering for Well-Being, Aging, and Health: An Overview for Practitioners. IEEE Software, 2021, 38, 7-12.	2.1	11
10	Creating Mobile Self-Triage Applications: Requirements and Usability Perspectives. , 2021, , .		0
11	REWBAH 2021: Second International Workshop on Requirements Engineering for Well-Being, Aging, and Health : Welcome from the Organizers. , 2021, , .		0
12	From event logs to goals: a systematic literature review of goal-oriented process mining. Requirements Engineering, 2020, 25, 67-93.	2.1	32
13	Expanding the nature and scope of requirements for service systems through Service-Dominant Logic: the case of a telemonitoring service. Requirements Engineering, 2020, 25, 273-293.	2.1	6
14	Symboleo: Towards a Specification Language for Legal Contracts. , 2020, , .		19
15	An ontology-driven framework to support the dynamic formation of an interdisciplinary healthcare team. International Journal of Medical Informatics, 2020, 136, 104075.	1.6	7
16	An Optimization Modeling Method for Adaptive Systems Based on Goal and Feature Models. , 2020, , .		0
17	Traceability Management of GRL and SysML Models. , 2020, , .		2
18	"Union is power". , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Compliance Checking for Transactive Energy Contracts using Smart Contracts. , 2020, , .		2
20	Static slicing of Use Case Maps requirements models. Software and Systems Modeling, 2019, 18, 2465-2505.	2.2	2
21	An automated change impact analysis approach for User Requirements Notation models. Journal of Systems and Software, 2019, 157, 110397.	3.3	7
22	Editorial, special issue RE 2018. Requirements Engineering, 2019, 24, 257-258.	2.1	0
23	Lean Healthcare Processes: Effective Technology Integration and Comprehensive Decision Support Using Requirements Engineering Methods. , 2019, , .		1
24	Requirements Engineering (RE) for Social Good: RE Cares [Requirements]. IEEE Software, 2019, 36, 86-94.	2.1	5
25	Inferring Metamodel Relaxations Based on Structural Patterns to Support Model Families. , 2019, , .		3
26	Data Preprocessing for Goal-Oriented Process Discovery. , 2019, , .		3
27	Arithmetic Semantics of Feature and Goal Models for Adaptive Cyber-Physical Systems. , 2019, , .		10
28	Process Mining for Cloud-Based Applications: A Systematic Literature Review. , 2019, , .		3
29	A systematic literature mapping of goal and non-goal modelling methods for legal and regulatory compliance. Requirements Engineering, 2019, 24, 459-481.	2.1	18
30	Union Models: Support for Efficient Reasoning About Model Families Over Space and Time. Lecture Notes in Computer Science, 2019, , 200-218.	1.0	7
31	Goal-oriented Process Enhancement and Discovery. Lecture Notes in Computer Science, 2019, , 102-118.	1.0	3
32	Goal Model Integration: Advanced Relationships and Rationales Documentation. Lecture Notes in Computer Science, 2019, , 183-199.	1.0	4
33	An Arithmetic Semantics for GRL Goal Models with Function Generation. Lecture Notes in Computer Science, 2018, , 144-162.	1.0	11
34	Welcome Message from the RE18 Chairs. , 2018, , .		1
35	Conceptualization of a Value Cocreation Language for Knowledge-Intensive Business Services. Lecture Notes in Business Information Processing, 2018, , 3-23.	0.8	2
36	An empirical approach toward the resolution of conflicts in goal-oriented models. Software and Systems Modeling, 2017, 16, 279-306.	2.2	10

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37	Using Goals and Indicators for Activity-based Process Integration in Healthcare. <i>Procedia Computer Science</i> , 2017, 113, 318-325.	1.2	10
38	Supporting process execution by interdisciplinary healthcare teams: Middleware design for IBM BPM. <i>Procedia Computer Science</i> , 2017, 113, 376-383.	1.2	2
39	What can information systems do for regulators? A review of the state-of-practice in Canada. , 2017, , .		3
40	A Distance-Based GRL Approach to Goal Model Refinement and Alternative Selection. , 2017, , .		4
41	The University of Ottawa Undergraduate Software Engineering Program: Leading and Innovative. , 2017, , .		2
42	Barriers to Successful Health Information Exchange Systems in Canada and the USA. <i>International Journal of Healthcare Information Systems and Informatics</i> , 2017, 12, 44-63.	1.0	4
43	Activity-based Process Integration in Healthcare with the User Requirements Notation. <i>Lecture Notes in Business Information Processing</i> , 2017, , 151-169.	0.8	5
44	On the Impact of the SDL Forum Society Conferences on Academic Research. <i>Lecture Notes in Computer Science</i> , 2017, , 30-45.	1.0	0
45	Goal-Oriented Regulatory Intelligence: How Can Watson Analytics Help?. <i>Lecture Notes in Computer Science</i> , 2017, , 77-91.	1.0	1
46	Evaluating the Potential of Technology in Justice Systems Using Goal Modeling. <i>Lecture Notes in Business Information Processing</i> , 2017, , 185-202.	0.8	2
47	A Virtual Patient Navigation Application for Lung Cancer Assessment Patients. <i>Lecture Notes in Business Information Processing</i> , 2017, , 255-272.	0.8	0
48	A Review on the Contribution of Emergency Department Simulation Studies in Reducing Wait Time. <i>International Journal of E-Health and Medical Communications</i> , 2017, 8, 1-21.	1.4	1
49	Real-Time, Location-Based Patient-Device Association Management. <i>International Journal of Healthcare Information Systems and Informatics</i> , 2017, 12, 37-61.	1.0	1
50	Modeling Data Sources. , 2017, , 175-188.		0
51	Towards Improved Requirements Engineering with SysML and the User Requirements Notation. , 2016, , .		10
52	Process mining in healthcare: a systematised literature review. <i>International Journal of Electronic Healthcare</i> , 2016, 9, 60.	0.2	55
53	Welcome to the Ninth International Workshop on Requirements Engineering and Law (RELAW). , 2016, , .		0
54	Using Semantic Components to Represent Dynamics of an Interdisciplinary Healthcare Team in a Multi-Agent Decision Support System. <i>Journal of Medical Systems</i> , 2016, 40, 42.	2.2	17

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55	A questionnaire-based survey methodology for systematically validating goal-oriented models. Requirements Engineering, 2016, 21, 285-308.	2.1	20
56	A real-time dashboard for managing pathology processes. Journal of Pathology Informatics, 2016, 7, 24.	0.8	10
57	Predictive Analytics to Support Real-Time Management in Pathology Facilities. AMIA ... Annual Symposium proceedings, 2016, 2016, 772-778.	0.2	1
58	Towards systems for increased access to justice using goal modeling. , 2015, , .		1
59	Real-time and location-based hand hygiene monitoring and notification: proof-of-concept system and experimentation. Personal and Ubiquitous Computing, 2015, 19, 667-688.	1.9	18
60	Consented consumer-centric non-functional property description and composition for SOA-based applications. International Journal of Web Engineering and Technology, 2015, 10, 355.	0.1	1
61	Model-Based Management of Strategic Initiatives. Journal on Data Semantics, 2015, 4, 149-165.	2.0	3
62	Common Length Name Representation: An Efficient Privacy-Preserving Scheme. , 2015, , .		0
63	Synergy between Activity Theory and goal/scenario modeling for requirements elicitation, analysis, and evolution. Information and Software Technology, 2015, 59, 109-135.	3.0	15
64	MET4: Supporting Workflow Execution for Interdisciplinary Healthcare Teams. Lecture Notes in Business Information Processing, 2015, , 40-52.	0.8	4
65	Information Technology Artifacts in the Regulatory Compliance of Business Processes: A Meta-Analysis. Lecture Notes in Business Information Processing, 2015, , 89-104.	0.8	7
66	Handling Regulatory Goal Model Families as Software Product Lines. Lecture Notes in Computer Science, 2015, , 181-196.	1.0	8
67	Adding a Textual Syntax to an Existing Graphical Modeling Language: Experience Report with GRL. Lecture Notes in Computer Science, 2015, , 159-174.	1.0	4
68	Generating Software Documentation in Use Case Maps from Filtered Execution Traces. Lecture Notes in Computer Science, 2015, , 177-192.	1.0	7
69	Consumer-centric non-functional properties of SOA-based services. , 2014, , .		6
70	Legal goal-oriented requirement language (legal GRL) for modeling regulations. , 2014, , .		34
71	Location-based Patient-device Association and Disassociation. Procedia Computer Science, 2014, 37, 282-286.	1.2	5
72	A DSL for importing models in a requirements management system. , 2014, , .		9

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73	A goal-oriented, business intelligence-supported decision-making methodology. Decision Analytics, 2014, 1, .	1.4	21
74	A Framework for a Business Intelligence-Enabled Adaptive Enterprise Architecture. Lecture Notes in Computer Science, 2014, , 393-406.	1.0	6
75	Creating Quantitative Goal Models: Governmental Experience. Lecture Notes in Computer Science, 2014, , 466-473.	1.0	12
76	A Tool for Simple and Efficient Clinical Protocol Evaluation. , 2014, , .		1
77	Real-World Data Set Parameters and Synthesization for Matching Identity in Clinical Protocols. , 2014, , .		1
78	Goal-oriented compliance with multiple regulations. , 2014, , .		31
79	Strategic business modeling: representation and reasoning. Software and Systems Modeling, 2014, 13, 1015-1041.	2.2	112
80	Towards an RTLS-based Hand Hygiene Notification System. Procedia Computer Science, 2014, 37, 261-265.	1.2	9
81	The Relevance of Model-Driven Engineering Thirty Years from Now. Lecture Notes in Computer Science, 2014, , 183-200.	1.0	57
82	Practical applications of i^{∗} in industry: The state of the art. , 2013, , .		2
83	Transforming regulations into performance models in the context of reasoning for outcome-based compliance. , 2013, , .		8
84	Regulation-Based Dimensional Modeling for Regulatory Intelligence. , 2013, , .		9
85	An Approach to Specify and Analyze Goal Model Families. Lecture Notes in Computer Science, 2013, , 34-52.	1.0	5
86	Legal requirements analysis and modeling with the measured compliance profile for the goal-oriented requirement language. , 2013, , .		0
87	Requirements for a modeling language to specify and match business process improvement patterns. , 2013, , .		8
88	GRL Model Validation: A Statistical Approach. Lecture Notes in Computer Science, 2013, , 212-228.	1.0	3
89	Composing Goal and Scenario Models with the Aspect-Oriented User Requirements Notation Based on Syntax and Semantics. , 2013, , 77-99.		5
90	Towards Advanced Goal Model Analysis with jUCMNav. Lecture Notes in Computer Science, 2012, , 201-210.	1.0	58

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91	Tool support for combined rule-based and goal-based reasoning in Context-Aware systems. , 2012, , .		5
92	AoURN-based modeling and analysis of software product lines. Software Quality Journal, 2012, 20, 645-687.	1.4	33
93	Towards outcome-based regulatory compliance in aviation security. , 2012, , .		14
94	Narrowing the gaps in Concern-Driven Development. , 2012, , .		2
95	Concern-driven development with jUCMNav. , 2012, , .		0
96	Using the Goal-oriented pattern family framework for modelling outcome-based regulations. , 2012, , .		8
97	Goal models as run-time entities in context-aware systems. , 2012, , .		17
98	Making Data Meaningful: The Business Intelligence Model and Its Formal Semantics in Description Logics. Lecture Notes in Computer Science, 2012, , 700-717.	1.0	20
99	Non-Functional Properties in Service Oriented Architecture – A Consumer's Perspective. Journal of Software, 2012, 7, .	0.6	22
100	A Systematic Review and Assessment of Aspect-oriented Methods Applied to Business Process Adaptation. Journal of Software, 2012, 7, .	0.6	5
101	Model-based Validation of Business Processes. , 2012, , 165-183.		1
102	Business Process Compliance Tracking Using Key Performance Indicators. Lecture Notes in Business Information Processing, 2011, , 73-84.	0.8	15
103	Toward a Goal-Oriented, Business Intelligence Decision-Making Framework. Lecture Notes in Business Information Processing, 2011, , 100-115.	0.8	29
104	Spotting the difference. Software - Practice and Experience, 2011, 41, 607-626.	2.5	4
105	From aspect-oriented requirements models to aspect-oriented business process design models. , 2011, , .		8
106	Transformation of aspect-oriented requirements specifications for reactive systems into aspect-oriented design specifications. , 2011, , .		7
107	A systematic review of goal-oriented requirements management frameworks for business process compliance. , 2011, , .		48
108	Evolution of Goal-Driven Pattern Families for Business Process Modeling. Lecture Notes in Business Information Processing, 2011, , 46-61.	0.8	1

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109	Strategic Models for Business Intelligence. Lecture Notes in Computer Science, 2011, , 429-439.	1.0	14
110	Analysing the Cognitive Effectiveness of the BPMN 2.0 Visual Notation. Lecture Notes in Computer Science, 2011, , 377-396.	1.0	83
111	Towards Model-Based Support for Managing Organizational Transformation. Lecture Notes in Business Information Processing, 2011, , 17-31.	0.8	6
112	Aspect-Oriented Feature Models. Lecture Notes in Computer Science, 2011, , 110-124.	1.0	4
113	Analysing the Cognitive Effectiveness of the UCM Visual Notation. Lecture Notes in Computer Science, 2011, , 221-240.	1.0	17
114	A Systematic Review of Compliance Measurement Based on Goals and Indicators. Lecture Notes in Computer Science, 2011, , 228-237.	1.0	12
115	Composite Indicators for Business Intelligence. Lecture Notes in Computer Science, 2011, , 448-458.	1.0	23
116	Reasoning with Key Performance Indicators. Lecture Notes in Business Information Processing, 2011, , 82-96.	0.8	32
117	User Requirements Notation: The First Ten Years, The Next Ten Years (Invited Paper). Journal of Software, 2011, 6, .	0.6	94
118	Modeling and Analyzing Non-Functional Requirements in Service Oriented Architecture with the User Requirements Notation. , 2011, , 48-72.		4
119	Towards a Taxonomy of Syntactic and Semantic Matching Mechanisms for Aspect-Oriented Modeling. Lecture Notes in Computer Science, 2011, , 241-256.	1.0	1
120	Toward an aspect-oriented framework for business process improvement. International Journal of Electronic Business, 2010, 8, 233.	0.2	14
121	Integrating business strategies with requirement models of legal compliance. International Journal of Electronic Business, 2010, 8, 260.	0.2	7
122	Modeling and detecting semantic-based interactions in aspect-oriented scenarios. Requirements Engineering, 2010, 15, 197-214.	2.1	7
123	Evaluating goal models within the goal-oriented requirement language. International Journal of Intelligent Systems, 2010, 25, 841-877.	3.3	200
124	Towards a Pattern-Based Framework for Goal-Driven Business Process Modeling. , 2010, , .		9
125	Requirements Modeling with the Aspect-oriented User Requirements Notation (AoURN): A Case Study. Lecture Notes in Computer Science, 2010, , 23-68.	1.0	20
126	Towards a Framework for Business Process Compliance. , 2010, , .		1

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127	Heterogeneous pointcut expressions. , 2009, , .		2
128	Modeling and Analysis of URN Goals and Scenarios with jUCMNav. , 2009, , .		9
129	A UML Profile for Goal-Oriented Modeling. Lecture Notes in Computer Science, 2009, , 133-148.	1.0	8
130	A Legal Perspective on Business: Modeling the Impact of Law. Lecture Notes in Business Information Processing, 2009, , 267-278.	0.8	2
131	A Lightweight GRL Profile for i* Modeling. Lecture Notes in Computer Science, 2009, , 254-264.	1.0	56
132	Semantic-Based Interaction Detection in Aspect-Oriented Scenarios. , 2009, , .		11
133	Goal and scenario modeling, analysis, and transformation with jUCMNav. , 2009, , .		29
134	Goal-Driven Development of a Patient Surveillance Application for Improving Patient Safety. Lecture Notes in Business Information Processing, 2009, , 65-76.	0.8	6
135	Compliance Analysis Based on a Goal-oriented Requirement Language Evaluation Methodology. , 2009, , .		63
136	On modeling interactions of early aspects with goals. , 2009, , .		5
137	A Globally Optimal k-Anonymity Method for the De-Identification of Health Data. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 670-682.	2.2	185
138	Business process management with the user requirements notation. Electronic Commerce Research, 2009, 9, 269-316.	3.0	111
139	An Aspect-Oriented Framework for Business Process Improvement. Lecture Notes in Business Information Processing, 2009, , 290-305.	0.8	10
140	Refactoring-Safe Modeling of Aspect-Oriented Scenarios. Lecture Notes in Computer Science, 2009, , 286-300.	1.0	3
141	Assessing the Applicability of Use Case Maps for Business Process and Workflow Description. , 2008, , .		9
142	Toward an Integrated User Requirements Notation Framework and Tool for Business Process Management. , 2008, , .		17
143	Flexible verification of user-defined semantic constraints in modelling tools. , 2008, , .		3
144	Comparative Analysis between Document-based and Model-based Compliance Management Approaches. , 2008, , .		8

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145	Next generation service engineering. , 2008, , .		7
146	Failure Semantics in a SOA Environment. , 2008, , .		3
147	Modeling software product lines with AoURN. , 2008, , .		2
148	Visualizing Aspect-Oriented Goal Models with AoGRL. , 2007, , .		21
149	Combining VoiceXML with CCXML: A Comparative Study. , 2007, , .		3
150	Towards a Framework for Tracking Legal Compliance in Healthcare. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2007, , 218-232.	0.2	77
151	Enhanced Use Case Map Traversal Semantics. Lecture Notes in Computer Science, 2007, , 133-149.	1.0	9
152	Visualizing Early Aspects with Use Case Maps. , 2007, , 105-143.		25
153	Flexible and Expressive Composition Rules with Aspect-oriented Use Case Maps (AoUCM). , 2007, , 19-38.		12
154	Formalizing Patterns with the User Requirements Notation. , 2007, , 302-323.		10
155	BUSINESS MODEL DESIGN AND EVOLUTION. Management of Technology, 2007, , 183-194.	0.1	2
156	Visualizing Aspect-Oriented Requirements Scenarios with Use Case Maps. , 2006, , .		16
157	Integrating an Eclipse-Based Scenario Modeling Environment with a Requirements Management System. , 2006, , .		7
158	Towards the Automated Conversion of Natural-Language use Cases to Graphical use Case Maps. , 2006, , .		4
159	Generation of test purposes from Use Case Maps. Computer Networks, 2005, 49, 643-660.	3.2	18
160	Business Process Modeling with URN. International Journal of E-Business Research, 2005, 1, 63-90.	0.7	45
161	Service Discovery and Component Reuse with Semantic Interfaces. Lecture Notes in Computer Science, 2005, , 85-102.	1.0	19
162	Traceability and Evaluation in Scenario Analysis by Use Case Maps. Lecture Notes in Computer Science, 2005, , 134-151.	1.0	5

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163	UCM-Driven Testing of Web Applications. Lecture Notes in Computer Science, 2005, , 247-264.	1.0	9
164	Interactive conflict detection and resolution for personalized features. Journal of Communications and Networks, 2005, 7, 353-366.	1.8	7
165	Title is missing!. Telecommunication Systems, 2003, 24, 61-94.	1.6	44
166	Introduction to the User Requirements Notation: learning by example. Computer Networks, 2003, 42, 285-301.	3.2	114
167	Generating scenarios from use case map specifications. , 2003, , .		23
168	URN: Towards a New Standard for the Visual Description of Requirements. Lecture Notes in Computer Science, 2003, , 21-37.	1.0	29
169	Understanding Existing Software with Use Case Map Scenarios. Lecture Notes in Computer Science, 2003, , 124-140.	1.0	5
170	Synthesizing SDL from Use Case Maps: An Experiment. Lecture Notes in Computer Science, 2003, , 117-136.	1.0	7
171	Deriving Message Sequence Charts from Use Case Maps Scenario Specifications. Lecture Notes in Computer Science, 2001, , 268-287.	1.0	25
172	Use Case Maps as a Feature Description Notation. , 2001, , 27-44.		7
173	Use Case Maps and Lotos for the prototyping and validation of a mobile group call system. Computer Communications, 2000, 23, 1135-1157.	3.1	14
174	On the Extension of UML with Use Case Maps Concepts. Lecture Notes in Computer Science, 2000, , 16-31.	1.0	13
175	Recovering Behavioral Design Models from Execution Traces. , 0, , .		44
176	Formalizing Patterns with the User Requirements Notation. , 0, , 301-319.		0