

Daniel Varro

List of Publications by Year in descending order

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138
papers

3,141
citations

201674

27
h-index

254184

43
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152
all docs

152
docs citations

152
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Generation of Consistent Graph Models With Multiplicity Reasoning. IEEE Transactions on Software Engineering, 2022, 48, 1610-1629.	5.6	6
2	Automated generation of consistent models using qualitative abstractions and exploration strategies. Software and Systems Modeling, 2022, 21, 1763-1787.	2.7	1
3	An Empirical Study of Type-Related Defects in Python Projects. IEEE Transactions on Software Engineering, 2022, 48, 3145-3158.	5.6	7
4	Delayed Reward Bernoulli Bandits: Optimal Policy and Predictive Meta-Algorithm PARDI. IEEE Transactions on Artificial Intelligence, 2022, 3, 152-163.	4.7	2
5	Optimal Policy for Bernoulli Bandits: Computation and Algorithm Gauge. IEEE Transactions on Artificial Intelligence, 2021, 2, 2-17.	4.7	2
6	Predictions-on-chip: model-based training and automated deployment of machine learning models at runtime. Software and Systems Modeling, 2021, 20, 685-709.	2.7	4
7	Automated generation of consistent, diverse and structurally realistic graph models. Software and Systems Modeling, 2021, 20, 1713-1734.	2.7	6
8	Worst-case Execution Time Calculation for Query-based Monitors by Witness Generation. Transactions on Embedded Computing Systems, 2021, 20, 1-36.	2.9	1
9	Continual Model-Based Analysis. , 2021, , 97-127.		0
10	Diversity of graph models and graph generators in mutation testing. International Journal on Software Tools for Technology Transfer, 2020, 22, 57-78.	1.9	15
11	Distributed graph queries over models@run.time for runtime monitoring of cyber-physical systems. International Journal on Software Tools for Technology Transfer, 2020, 22, 79-102.	1.9	13
12	Opportunities in intelligent modeling assistance. Software and Systems Modeling, 2020, 19, 1045-1053.	2.7	37
13	Mixed-semantics composition of statecharts for the component-based design of reactive systems. Software and Systems Modeling, 2020, 19, 1483-1517.	2.7	15
14	Automated Generation of Consistent Graph Models with First-Order Logic Theorem Provers. Lecture Notes in Computer Science, 2020, , 441-461.	1.3	2
15	Automated generation of consistent models with structural and attribute constraints. , 2020, , .		7
16	A Specification Language for Consistent Model Generation based on Partial Models.. Journal of Object Technology, 2020, 19, 3:1.	0.9	3
17	Automated video game world map synthesis by model-based techniques. , 2020, , .		0
18	Evaluation of Distributed Query-Based Monitoring over Data Distribution Service. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	VIATRA Solver: A Framework for the Automated Generation of Consistent Domain-Specific Models. , 2019, , .		11
20	Towards System-Level Testing with Coverage Guarantees for Autonomous Vehicles. , 2019, , .		23
21	On Artificial Intelligence for Simulation and Design Space Exploration in Gas Turbine Design. , 2019, , .		3
22	Towards WCET Estimation of Graph Queries@Run.time. , 2019, , .		1
23	Survey and classification of model transformation tools. Software and Systems Modeling, 2019, 18, 2361-2397.	2.7	74
24	Enforcing fine-grained access control for secure collaborative modelling using bidirectional transformations. Software and Systems Modeling, 2019, 18, 1737-1769.	2.7	10
25	MoDeS3: Model-Based Demonstrator for Smart and Safe Cyber-Physical Systems. Lecture Notes in Computer Science, 2018, , 460-467.	1.3	8
26	Towards the Automated Generation of Consistent, Diverse, Scalable and Realistic Graph Models. Lecture Notes in Computer Science, 2018, , 285-312.	1.3	17
27	Foundations for Streaming Model Transformations by Complex Event Processing. Software and Systems Modeling, 2018, 17, 135-162.	2.7	23
28	The Train Benchmark: cross-technology performance evaluation of continuous model queries. Software and Systems Modeling, 2018, 17, 1365-1393.	2.7	36
29	Evaluating the efficiency of using a search-based automated model merge technique. , 2018, , .		1
30	Incremental View Model Synchronization Using Partial Models. , 2018, , .		4
31	Incquery server for teamwork cloud. , 2018, , .		7
32	A graph solver for the automated generation of consistent domain-specific models. , 2018, , .		36
33	The Gamma statechart composition framework. , 2018, , .		19
34	Secure Views for Collaborative Modeling. IEEE Software, 2018, 35, 32-38.	1.8	2
35	Iterative Generation of Diverse Models for Testing Specifications of DSL Tools. Lecture Notes in Computer Science, 2018, , 227-245.	1.3	15
36	Distributed Graph Queries for Runtime Monitoring of Cyber-Physical Systems. Lecture Notes in Computer Science, 2018, , 111-128.	1.3	10

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37	Formal validation of domain-specific languages with derived features and well-formedness constraints. <i>Software and Systems Modeling</i> , 2017, 16, 357-392.	2.7	27
38	The MONDO collaboration framework: secure collaborative modeling over existing version control systems. , 2017, , .		11
39	Graph Constraint Evaluation over Partial Models by Constraint Rewriting. <i>Lecture Notes in Computer Science</i> , 2017, , 138-154.	1.3	15
40	Formalising openCypher Graph Queries in Relational Algebra. <i>Lecture Notes in Computer Science</i> , 2017, , 182-196.	1.3	15
41	Evaluation of Optimization Strategies for Incremental Graph Queries. <i>Periodica Polytechnica Electrical Engineering and Computer Science</i> , 2017, 61, 175.	1.0	5
42	Evaluating Well-Formedness Constraints on Incomplete Models. <i>Acta Cybernetica</i> , 2017, 23, 687-713.	0.6	1
43	Road to a reactive and incremental model transformation platform: three generations of the VIATRA framework. <i>Software and Systems Modeling</i> , 2016, 15, 609-629.	2.7	72
44	Iterative and Incremental Model Generation by Logic Solvers. <i>Lecture Notes in Computer Science</i> , 2016, , 87-103.	1.3	25
45	Towards the characterization of realistic models. , 2016, , .		12
46	Incremental backward change propagation of view models by logic solvers*. , 2016, , .		10
47	Query-based access control for secure collaborative modeling using bidirectional transformations*. , 2016, , .		16
48	Query-driven soft traceability links for models. <i>Software and Systems Modeling</i> , 2016, 15, 733-756.	2.7	12
49	Incremental Queries and Transformations: From Concepts to Industrial Applications. <i>Lecture Notes in Computer Science</i> , 2016, , 51-59.	1.3	5
50	Rete Network Slicing for Model Queries. <i>Lecture Notes in Computer Science</i> , 2016, , 137-152.	1.3	1
51	Performance comparison of query-based techniques for anti-pattern detection. <i>Information and Software Technology</i> , 2015, 65, 147-165.	4.4	16
52	A model-driven framework for guided design space exploration. <i>Automated Software Engineering</i> , 2015, 22, 399-436.	2.9	28
53	EMF-IncQuery: An integrated development environment for live model queries. <i>Science of Computer Programming</i> , 2015, 98, 80-99.	1.9	80
54	Local Search-Based Pattern Matching Features in EMF-IncQuery. <i>Lecture Notes in Computer Science</i> , 2015, , 275-282.	1.3	11

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55	Viatra 3: A Reactive Model Transformation Platform. Lecture Notes in Computer Science, 2015, , 101-110.	1.3	34
56	Hardware-software allocation specification of IMA systems for early simulation. , 2014, , .		4
57	Multi-objective optimization in rule-based design space exploration. , 2014, , .		49
58	Query-driven incremental synchronization of view models. , 2014, , .		16
59	IncQuery-D: A Distributed Incremental Model Query Framework in the Cloud. Lecture Notes in Computer Science, 2014, , 653-669.	1.3	21
60	Anti-pattern detection with model queries: A comparison of approaches. , 2014, , .		7
61	Dynamic Scope Discovery for Model Transformations. Lecture Notes in Computer Science, 2014, , 302-321.	1.3	2
62	Streaming Model Transformations By Complex Event Processing. Lecture Notes in Computer Science, 2014, , 68-83.	1.3	13
63	A research roadmap towards achieving scalability in model driven engineering. , 2013, , .		67
64	IncQuery-D. , 2013, , .		7
65	Validation of Derived Features and Well-Formedness Constraints in DSLs. Lecture Notes in Computer Science, 2013, , 538-554.	1.3	3
66	Summary of the First Workshop on the Analysis of Model Transformations (AMT'12). , 2012, , .		0
67	Developing and visualizing live model queries. , 2012, , .		0
68	Ontology driven design of EMF metamodels and well-formedness constraints. , 2012, , .		0
69	Dynamic Backward Slicing of Model Transformations. , 2012, , .		16
70	Lessons learned from building model-driven development tools. Software and Systems Modeling, 2012, 11, 527-539.	2.7	12
71	Integrating Efficient Model Queries in State-of-the-Art EMF Tools. Lecture Notes in Computer Science, 2012, , 1-8.	1.3	8
72	Replaying Execution Trace Models for Dynamic Modeling Languages. Periodica Mathematica Hungarica, 2012, 56, 71.	0.9	6

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73	Dynamic constraint satisfaction problems over models. Software and Systems Modeling, 2012, 11, 385-408.	2.7	17
74	Change-driven model transformations. Software and Systems Modeling, 2012, 11, 431-461.	2.7	53
75	A Tool for Managing Evolving Security Requirements. Lecture Notes in Computer Science, 2012, , 110-125.	1.3	1
76	Incremental Pattern Matching for the Efficient Computation of Transitive Closure. Lecture Notes in Computer Science, 2012, , 386-400.	1.3	8
77	Towards dynamic backward slicing of model transformations. , 2011, , .		7
78	A model-driven framework for guided design space exploration. , 2011, , .		28
79	Quick fix generation for DSMLs. , 2011, , .		33
80	Implementing efficient model validation in EMF tools. , 2011, , .		2
81	A Graph Query Language for EMF Models. Lecture Notes in Computer Science, 2011, , 167-182.	1.3	46
82	Non-functional properties in the model-driven development of service-oriented systems. Software and Systems Modeling, 2011, 10, 287-311.	2.7	28
83	Advances in Model Transformations by Graph Transformation: Specification, Execution and Analysis. Lecture Notes in Computer Science, 2011, , 561-584.	1.3	3
84	Incremental Evaluation of Model Queries over EMF Models: A Tutorial on EMF-IncQuery. Lecture Notes in Computer Science, 2011, , 389-390.	1.3	3
85	Design and Deployment of Service Oriented Applications with Non-Functional Requirements. Advances in Web Technologies and Engineering Book Series, 2011, , 315-339.	0.4	0
86	Experimental assessment of combining pattern matching strategies with VIATRA2. International Journal on Software Tools for Technology Transfer, 2010, 12, 211-230.	1.9	20
87	Synchronization of abstract and concrete syntax in domain-specific modeling languages. Software and Systems Modeling, 2010, 9, 453-471.	2.7	22
88	Back-annotation of Simulation Traces with Change-Driven Model Transformations. , 2010, , .		26
89	Model-driven development of ARINC 653 configuration tables. , 2010, , .		7
90	Incremental Evaluation of Model Queries over EMF Models. Lecture Notes in Computer Science, 2010, , 76-90.	1.3	56

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91	Model-driven development of ARINC 653 configuration tables. , 2010, , .		11
92	Teaching Modeling: Why, When, What?. Lecture Notes in Computer Science, 2010, , 55-62.	1.3	16
93	Workflow-Driven Tool Integration Using Model Transformations. Lecture Notes in Computer Science, 2010, , 224-248.	1.3	16
94	Model transformation by example using inductive logic programming. Software and Systems Modeling, 2009, 8, 347-364.	2.7	57
95	Tool Support for Engineering Certifiable Software. Electronic Notes in Theoretical Computer Science, 2009, 238, 79-85.	0.9	3
96	Efficient Model Transformations by Combining Pattern Matching Strategies. Lecture Notes in Computer Science, 2009, , 20-34.	1.3	8
97	Change-Driven Model Transformations. Lecture Notes in Computer Science, 2009, , 342-356.	1.3	15
98	CSP(M): Constraint Satisfaction Problem over Models. Lecture Notes in Computer Science, 2009, , 107-121.	1.3	7
99	Towards Testing the Implementation of Graph Transformations. Electronic Notes in Theoretical Computer Science, 2008, 211, 75-85.	0.9	11
100	Design-time simulation of domain-specific models by incremental pattern matching. Visual Languages and Human-Centric Computing, 2009 VL/HCC 2009 IEEE Symposium on, 2008, , .	0.0	19
101	Incremental pattern matching in the viatra model transformation system. , 2008, , .		39
102	A Benchmark Evaluation of Incremental Pattern Matching in Graph Transformation. Lecture Notes in Computer Science, 2008, , 396-410.	1.3	31
103	Live Model Transformations Driven by Incremental Pattern Matching. Lecture Notes in Computer Science, 2008, , 107-121.	1.3	32
104	Sensoria Patterns: Augmenting Service Engineering with Formal Analysis, Transformation and Dynamicity. Communications in Computer and Information Science, 2008, , 170-190.	0.5	13
105	Recursive Graph Pattern Matching. Lecture Notes in Computer Science, 2008, , 456-470.	1.3	7
106	Automating model transformation by example using inductive logic programming. , 2007, , .		39
107	Formal modeling of BPEL workflows including fault and compensation handling. , 2007, , .		10
108	Modeling and Verification of Reliable Messaging by Graph Transformation Systems. Electronic Notes in Theoretical Computer Science, 2007, 175, 37-50.	0.9	14

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109	The model transformation language of the VIATRA2 framework. Science of Computer Programming, 2007, 68, 214-234.	1.9	154
110	An Eclipse-Based Framework for AIS Service Configurations. Lecture Notes in Computer Science, 2007, , 110-126.	1.3	11
111	Model-Based Testing of Service Infrastructure Components. Lecture Notes in Computer Science, 2007, , 155-170.	1.3	8
112	Style-based modeling and refinement of service-oriented architectures. Software and Systems Modeling, 2006, 5, 187-207.	2.7	55
113	Implementing a Graph Transformation Engine in Relational Databases. Software and Systems Modeling, 2006, 5, 313-341.	2.7	19
114	Applying a Model Transformation Taxonomy to Graph Transformation Technology. Electronic Notes in Theoretical Computer Science, 2006, 152, 143-159.	0.9	44
115	Adaptive Graph Pattern Matching for Model Transformations using Model-sensitive Search Plans. Electronic Notes in Theoretical Computer Science, 2006, 152, 191-205.	0.9	38
116	Advanced model transformation language constructs in the VIATRA2 framework. , 2006, , .		70
117	Compiling model transformations to EJB3-specific transformer plugins. , 2006, , .		6
118	Model Transformation by Example. Lecture Notes in Computer Science, 2006, , 410-424.	1.3	101
119	Graph Transformation in Relational Databases. Electronic Notes in Theoretical Computer Science, 2005, 127, 167-180.	0.9	6
120	Model-Based Optimization of Enterprise Application and Service Deployment. Lecture Notes in Computer Science, 2005, , 84-98.	1.3	5
121	Termination Criteria for Model Transformation. Lecture Notes in Computer Science, 2005, , 49-63.	1.3	59
122	Model Checking Graph Transformations: A Comparison of Two Approaches. Lecture Notes in Computer Science, 2004, , 226-241.	1.3	58
123	Generic and Meta-transformations for Model Transformation Engineering. Lecture Notes in Computer Science, 2004, , 290-304.	1.3	64
124	Automated formal verification of visual modeling languages by model checking. Software and Systems Modeling, 2004, 3, 85-113.	2.7	71
125	Graph Transformation with Incremental Updates. Electronic Notes in Theoretical Computer Science, 2004, 109, 71-83.	0.9	13
126	Joint Optimization and Reachability Analysis in Graph Transformation Systems with Time. Electronic Notes in Theoretical Computer Science, 2004, 109, 137-147.	0.9	10

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127	VPM: A visual, precise and multilevel metamodeling framework for describing mathematical domains and UML (The Mathematics of Metamodeling is Metamodeling Mathematics). Software and Systems Modeling, 2003, 2, 187-210.	2.7	76
128	Towards Symbolic Analysis of Visual Modeling Languages. Electronic Notes in Theoretical Computer Science, 2003, 72, 51-64.	0.9	6
129	Modeling and validation of service-oriented architectures. , 2003, , .		62
130	Modeling and validation of service-oriented architectures. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2003, 28, 68-77.	0.7	20
131	CheckVML: A Tool for Model Checking Visual Modeling Languages. Lecture Notes in Computer Science, 2003, , 92-95.	1.3	38
132	An Open Visualization Framework for Metamodel-Based Modeling Languages. Electronic Notes in Theoretical Computer Science, 2002, 72, 69-78.	0.9	5
133	Designing the automatic transformation of visual languages. Science of Computer Programming, 2002, 44, 205-227.	1.9	94
134	Metamodeling Mathematics: A Precise and Visual Framework for Describing Semantics Domains of UML Models. Lecture Notes in Computer Science, 2002, , 18-33.	1.3	10
135	Graph Transformation with Time: Causality and Logical Clocks. Lecture Notes in Computer Science, 2002, , 120-134.	1.3	15
136	A Formal Semantics of UML Statecharts by Model Transition Systems. Lecture Notes in Computer Science, 2002, , 378-392.	1.3	44
137	Style-based refinement of dynamic software architectures. , 0, , .		28
138	Benchmarking for Graph Transformation. , 0, , .		37