

Gabriel A Wainer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

1,287
citations

17
h-index

27
g-index

273
ext. papers

1,605
ext. citations

1.7
avg, IF

5.01
L-index

#	Paper	IF	Citations
188	Exploration of Network Theory to Evaluate Organizational Resilience. <i>International Journal of Mathematical, Engineering and Management Sciences</i> , 2022 , 7, 28-48	1	0
187	Measured Data Reliability for Building Performance and Maintenance. <i>IEEE Instrumentation and Measurement Magazine</i> , 2022 , 25, 55-61	1.4	0
186	Integration and Automation of Modeling of Biological Cell Processes. <i>Simulation Modelling Practice and Theory</i> , 2022 , 114, 102419	3.9	
185	Uncertainty on Discrete-Event System Simulation. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2022 , 32, 1-27	0.6	
184	Application of Device-to-Device Communication in Video Streaming for 5G Wireless Networks. <i>Lecture Notes in Networks and Systems</i> , 2022 , 345-371	0.5	
183	Application of the Horizontal Soil Stratification and Lateral Profiling Methods for 3D Mapping of the Soil Electrical Resistivity. <i>Energies</i> , 2022 , 15, 2067	3.1	
182	Machine Learning-based Indoor Localization and Occupancy Estimation using 5G Ultra-Dense Networks. <i>Simulation Modelling Practice and Theory</i> , 2022 , 102543	3.9	1
181	Spatial Model of Optimization Applied in the Distributed Generation Photovoltaic to Adjust Voltage Levels. <i>Energies</i> , 2021 , 14, 7506	3.1	
180	A DEVS-based engine for building digital quadruplets. <i>Simulation</i> , 2021 , 97, 485-506	1.2	2
179	Advanced models for centroidal particle dynamics: short-range collision avoidance in dense crowds. <i>Simulation</i> , 2021 , 97, 529-543	1.2	6
178	Parametric Regression Applied for Determination of Electrical Parameters of Synchronous and Induction Generators Operating in Parallel on the Electrical Energy Repowering System. <i>Energies</i> , 2021 , 14, 3875	3.1	1
177	Modeling and Simulation of Space-Based Pandemic Scenarios Using an Open-Source Platform. <i>Computing in Science and Engineering</i> , 2021 , 23, 80-84	1.5	
176	Analysis and Adequacy Methodology for Voltage Violations in Distribution Power Grid. <i>Energies</i> , 2021 , 14, 4373	3.1	1
175	Modeling Carbon Dioxide Dispersion Indoors. <i>Lecture Notes in Computer Science</i> , 2021 , 226-236	0.9	0
174	Discrete-Event Modeling and Simulation of Diffusion Processes in Multiplex Networks. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2021 , 31, 1-32	0.6	1
173	Explicit Modeling of Personal Space for Improved Local Dynamics in Simulated Crowds. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2021 , 31, 1-29	0.6	1
172	Cell-DEVS Models for the Spread of COVID-19. <i>Lecture Notes in Computer Science</i> , 2021 , 239-249	0.9	1

171	Computational Science in the Battle Against COVID-19 Part II. <i>Computing in Science and Engineering</i> , 2021 , 23, 5-6	1.5	0
170	Efficiency Enhancement of Switched Reluctance Generator Employing Optimized Control Associated with Tracking Technique. <i>Energies</i> , 2021 , 14, 8388	3.1	1
169	Designing real-time systems using imprecise discrete-event system specifications. <i>Software - Practice and Experience</i> , 2020 , 50, 1327-1344	2.5	3
168	Cell-DEVS for Social Phenomena Modeling. <i>IEEE Transactions on Computational Social Systems</i> , 2020 , 7, 725-740	4.5	4
167	A Traffic Simulation Tool for Assessing Smart City Policies (CitScale). <i>Computing in Science and Engineering</i> , 2020 , 22, 100-112	1.5	
166	Experimental study of induction generator as a repowering solution. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12365	2.2	5
165	Discrete Event Systems Specifications Modelling and Simulation of Wireless Networking Applications. <i>Journal of Simulation</i> , 2020 , 1-25	1.9	3
164	Cell-DEVS Models for CO2 Sensors Locations in Closed Spaces 2020 ,		1
163	An Architecture for Integrating BDI Agents with a Simulation Environment. <i>Lecture Notes in Computer Science</i> , 2020 , 67-84	0.9	3
162	Coordinated multi-cell cooperation with user centric dynamic coordination station. <i>Computer Networks</i> , 2020 , 166, 106948	5.4	2
161	Fog and cloud collaboration to perform virtual simulation experiments. <i>Simulation Modelling Practice and Theory</i> , 2020 , 101, 102032	3.9	5
160	QoE awareness in progressive caching and DASH-based D2D video streaming in cellular networks. <i>Wireless Networks</i> , 2020 , 26, 2051-2073	2.5	3
159	Optimized techniques for driving and control of the switched reluctance motor to improve efficiency. <i>Control Engineering Practice</i> , 2019 , 90, 1-18	3.9	9
158	Converting High Level Models into DEVS Modeling and Simulation Applications. <i>Simulation Foundations, Methods and Applications</i> , 2019 , 117-156	0.6	
157	An Introduction to Pedestrian Modeling Using Spatial Discrete-Event Modeling and Simulation. <i>Simulation Foundations, Methods and Applications</i> , 2019 , 195-218	0.6	
156	Next generation wireless cellular networks: ultra-dense multi-tier and multi-cell cooperation perspective. <i>Wireless Networks</i> , 2019 , 25, 2041-2064	2.5	29
155	Mechanism for Measuring System Complexity Applying Sensitivity Analysis. <i>Complexity</i> , 2019 , 2019, 1-12	1.6	4
154	Design and Implementation of A Building Control System in Real-Time Devs 2019 ,		1

153	2019,		1
152	Building Devs Models with the Cadmium Tool 2019,		2
151	2019,		1
150	Advanced Cell-DEVS modeling applications: a legacy of Norbert Giambiasi. <i>Simulation</i> , 2018 , 0037549718761594		4
149	Integrated cellular framework for modeling ecosystems: Theory and applications. <i>Simulation</i> , 2018 , 94, 213-233	1.2	2
148	Multiscale representation of simulated time. <i>Simulation</i> , 2018 , 94, 519-558	1.2	3
147	Improving Video Transmission in Cellular Networks with Cached and Segmented Video Download Algorithms. <i>Mobile Networks and Applications</i> , 2018 , 23, 543-559	2.9	4
146	What we know and do not know about organizational resilience. <i>International Journal of Production Management and Engineering</i> , 2018 , 6, 11	0.4	39
145	Semi-asynchronous approximate parallel DEVS simulation of web search engines. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4149	1.4	2
144	Formal Abstract Modeling of Dynamic Multiplex Networks 2018,		2
143	The Application of the Viable System Model to Enhance Organizational Resilience. <i>Lecture Notes in Management and Industrial Engineering</i> , 2017 , 95-107	0.3	6
142	MAMS: Mashup architecture with modeling and simulation as a service. <i>Journal of Computational Science</i> , 2017 , 21, 113-131	3.4	6
141	Sensitivity analysis of the synchronous generation repowering system in parallel with induction generator 2017,		1
140	Modeling Coordinated Multipoint with a dynamic Coordination Station in LTE-A mobile networks 2017,		3
139	Improving video streaming over cellular networks with DASH-based device-to-device streaming 2017,		5
138	Analytical method for calculating the sensitivity index of system parameters 2017,		1
137	Handover enhancement for LTE-Advanced and beyond heterogeneous cellular networks 2017,		3
136	Nonlinear simulation methodology for switched reluctance machine using induction profile found by parametric regression 2017,		1

135	Real-time simulation of DEVS models in CD++. <i>International Journal of Simulation and Process Modelling</i> , 2016 , 11, 138	0.4	3
134	Using elected coordination stations for CSI feedback on CoMP downlink transmissions 2016 ,		3
133	A hybrid approach to study communication in emergency plans 2016 ,		2
132	An architecture to facilitate interoperability of Discrete Event System Specification and Coalition Battle Management Language simulation models. <i>Journal of Defense Modeling and Simulation</i> , 2016 , 13, 43-65	0.4	
131	Modeling pedestrian behavior with Cell-DEVS: theory and applications. <i>Simulation</i> , 2016 , 92, 117-139	1.2	10
130	Modelling and simulation of complex cellular models using Cell-DEVS. <i>Simulation</i> , 2016 , 92, 101-115	1.2	2
129	Modeling and simulation as a service architecture for deploying resources in the Cloud. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2016 , 07, 1641002	0.8	6
128	2016 ,		3
127	Signaling overhead and feedback delay reduction in heterogeneous multicell cooperative networks 2016 ,		3
126	Distributed cached and segmented video download for video transmission in cellular networks 2016 ,		7
125	Distributed simulation of DEVS and Cell-DEVS models using the RISE middleware. <i>Simulation Modelling Practice and Theory</i> , 2015 , 55, 27-45	3.9	6
124	Investigation on software-defined networks reactive routing against BitTorrent. <i>IET Networks</i> , 2015 , 4, 249-254	2.8	1
123	Discrete-Event Modeling and Simulation for Embedded Systems. <i>Computing in Science and Engineering</i> , 2015 , 17, 52-63	1.5	3
122	Using a Discrete-Event System Specifications (DEVS) for designing a Modelica compiler. <i>Advances in Engineering Software</i> , 2015 , 79, 111-126	3.6	2
121	The cell-DEVS formalism as a method for activity tracking in spatial modelling and simulation. <i>International Journal of Simulation and Process Modelling</i> , 2015 , 10, 19	0.4	2
120	Designing Biological Simulation Models Using Formalism-Based Functional and Spatial Decompositions. <i>Computing in Science and Engineering</i> , 2015 , 17, 72-82	1.5	2
119	Applying Complex Network Theory to the Assessment of Organizational Resilience. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1224-1229	0.7	12
118	A simulation as a service methodology with application for crowd modeling, simulation and visualization. <i>Simulation</i> , 2015 , 91, 71-95	1.2	13

117	Data Upload in LTE-A Mobile Networks by Using Shared Segmented Upload. <i>Journal of Networks</i> , 2015 , 10,		1
116	A Mashup Architecture with Modeling and Simulation as a Service. <i>Lecture Notes in Computer Science</i> , 2015 , 247-261	0.9	4
115	Using Discrete-Event Cell-Based Multimodels for the Simulation of Evacuation Processes. <i>Simulation Foundations, Methods and Applications</i> , 2015 , 175-196	0.6	
114	Editorial for Principles of Advanced Discrete Simulation. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2015 , 26, 1-3	0.6	
113	2014 ,		1
112	Evaluating the Impact of Software-defined Networks Reactive Routing on BitTorrent Performance. <i>Procedia Computer Science</i> , 2014 , 34, 668-673	1.6	5
111	On the definition of a computational fluid dynamic solver using cellular discrete-event simulation. <i>Journal of Computational Science</i> , 2014 , 5, 882-890	3.4	3
110	DEVS modeling of large scale Web Search Engines 2014 ,		10
109	Cellular Modeling with Cell-DEVS: A Discrete-Event Cellular Automata Formalism. <i>Lecture Notes in Computer Science</i> , 2014 , 6-15	0.9	3
108	Modeling and simulation-driven development of embedded real-time systems. <i>Simulation Modelling Practice and Theory</i> , 2013 , 38, 115-131	3.9	7
107	RISE: A general simulation interoperability middleware container. <i>Journal of Parallel and Distributed Computing</i> , 2013 , 73, 580-594	4.4	19
106	Large-scale investigation of oxygen response mutants in <i>Saccharomyces cerevisiae</i> . <i>Molecular BioSystems</i> , 2013 , 9, 1351-9		19
105	Synchronization methods in parallel and distributed discrete-event simulation. <i>Simulation Modelling Practice and Theory</i> , 2013 , 30, 54-73	3.9	36
104	Semi-automatic extraction of software skeletons for benchmarking large-scale parallel applications 2013 ,		7
103	Graphical modeling and simulation of discrete-event systems with CD++Builder. <i>Simulation</i> , 2013 , 89, 4-27	1.2	13
102	Principles of Discrete Event System Specification model verification. <i>Simulation</i> , 2013 , 89, 41-67	1.2	9
101	2013 ,		5
100	Early lactation failure and formula adoption after elective caesarean delivery: cohort study. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2013 , 98, F37-41	4.7	31

99	DEVS-based Building Information Modeling and simulation for emergency evacuation 2012,			8
98	DEVS simulation of peer-to-peer file-sharing 2012,			1
97	Simulation in the Cloud Using Handheld Devices 2012,			5
96	Multicore acceleration of Discrete Event System Specification systems. <i>Simulation</i> , 2012 , 88, 801-831	1.2		12
95	Panel on grand challenges for modeling and simulation 2012,			9
94	Simulation Processes in the Cloud for Emergency Planning 2012,			5
93	Principles of DEVS Model Verification for Real-Time Embedded Applications. <i>Computational Analysis, Synthesis, and Design of Dynamic Models Series</i> , 2012 , 63-96			2
92	Architecture for integrated modeling, simulation and visualization of environmental systems using GIS and Cell-DEVS 2011,			3
91	Studying performance of DEVS modeling and simulation environments using the DEVStone benchmark. <i>Simulation</i> , 2011 , 87, 555-580	1.2		12
90	Distributed Simulation Using RESTful Interoperability Simulation Environment (RISE) Middleware. <i>Intelligent Systems Reference Library</i> , 2011 , 129-157	0.8		5
89	Impulse-Based Dynamic Simulation of Deformable Biological Structures. <i>Lecture Notes in Computer Science</i> , 2011 , 39-60	0.9		1
88	A Formal Framework for Stochastic Discrete Event System Specification Modeling and Simulation. <i>Simulation</i> , 2010 , 86, 587-611	1.2		17
87	Exploring Multi-Grained Parallelism in Compute-Intensive DEVS Simulations 2010,			2
86	Rise: Rest-ing heterogeneous simulations interoperability 2010,			5
85	Conservative DEVS 2010,			4
84	DEVS modelling and simulation of the cellular metabolism by mitochondria. <i>Molecular Simulation</i> , 2010 , 36, 907-928	2		1
83	Application of RT-DEVS in military 2010,			2
82	Designing an interface for real-time and embedded DEVS 2010,			7

81	Rational time-advance DEVS (RTA-DEVS) 2010 ,	7
80	Accelerating large-scale DEVS-based simulation on the cell processor 2010 ,	7
79	Advanced IDE for modeling and simulation of discrete event systems 2010 ,	4
78	Integrating building information modeling & cell-DEVS simulation 2010 ,	4
77	Managing simulation Workflow patterns using dynamic service-oriented compositions 2010 ,	2
76	Novel performance optimization of large-scale discrete-event simulation on the Cell Broadband Engine 2010 ,	3
75	From DEVS to RTA-DEVS 2010 ,	2
74	Global Lookahead Management (GLM) Protocol for Conservative DEVS Simulation 2010 ,	6
73	An Introduction to Distributed Simulation 2010 , 373-402	5
72	Parallel Simulation of DEVS and Cell-DEVS Models in PCD++. <i>Computational Analysis, Synthesis, and Design of Dynamic Models Series</i> , 2010 , 223-270	3
71	DEVS Standardization. <i>Computational Analysis, Synthesis, and Design of Dynamic Models Series</i> , 2010 , 389-391	4
70	An Introduction to DEVS Standardization. <i>Computational Analysis, Synthesis, and Design of Dynamic Models Series</i> , 2010 , 393-425	5
69	Standardizing DEVS Simulation Middleware. <i>Computational Analysis, Synthesis, and Design of Dynamic Models Series</i> , 2010 , 459-493	4
68	Using REST Web-Services Architecture for Distributed Simulation 2009 ,	9
67	A Performance Evaluation of the Lightweight Time Warp Protocol in Optimistic Parallel Simulation of DEVS-Based Environmental Models 2009 ,	4
66	2009 ,	6
65	Simulation of a presynaptic nerve terminal with a tethered particle system model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 3877-80	0.9 2
64	Performing distributed simulation with RESTful Web-services 2009 ,	7

63	Tools for Graphical Specification and Visualization of DEVS Models. <i>Simulation</i> , 2009 , 85, 131-158	1.2	13
62	DEVS-based design of spatial simulations of biological systems 2009 ,		3
61	Flattened Conservative Parallel Simulator for DEVS and CELL-DEVS 2009 ,		4
60	Interfacing and Coordination for a DEVS Simulation Protocol Standard 2008 ,		7
59	Distributed Simulation and Web Map Mash-Up for Forest Fire Spread 2008 ,		7
58	a .NET Remoting-Based Distributed Simulation Approach for DEVS and Cell-DEVS Models 2008 ,		2
57	Dynamic Structure DEVS: Improving the Real-Time Embedded Systems Simulation and Design. <i>Simulation Symposium, Proceedings of the Annual</i> , 2008 ,		3
56	Vesicle-synapsin interactions modeled with Cell-DEVS 2008 ,		5
55	Lightweight Time Warp A Novel Protocol for Parallel Optimistic Simulation of Large-Scale DEVS and Cell-DEVS Models 2008 ,		4
54	Extending DEVS to support multiple occurrence in component-based simulation 2008 ,		3
53	Distributed simulation of DEVS and Cell-DEVS models in CD++ using Web-Services. <i>Simulation Modelling Practice and Theory</i> , 2008 , 16, 1266-1292	3.9	32
52	Modelling Tumor-Immune Systems With Cell-DEVS 2008 ,		2
51	Cell-based representation and analysis of spatial resources in construction simulation. <i>Automation in Construction</i> , 2007 , 16, 436-448	9.6	28
50	DEVS modeling of mobile wireless ad hoc networks. <i>Simulation Modelling Practice and Theory</i> , 2007 , 15, 285-314	3.9	12
49	Modeling physical systems using finite element Cell-DEVS. <i>Simulation Modelling Practice and Theory</i> , 2007 , 15, 1268-1291	3.9	5
48	Developing a software toolkit for urban traffic modeling. <i>Software - Practice and Experience</i> , 2007 , 37, 1377-1404	2.5	9
47	PARALLEL ALGORITHMS FOR CELLULAR MODELS SIMULATION. <i>Parallel Processing Letters</i> , 2007 , 17, 263-285	0.3	1
46	Parallel Environment for DEVS and Cell-DEVS Models. <i>Simulation</i> , 2007 , 83, 449-471	1.2	23

45	Performance Analysis of an Optimistic Simulator for CD++ 2007 ,			1
44	2007 ,			1
43	Applying Cell-DEVS Methodology for Modeling the Environment. <i>Simulation</i> , 2006 , 82, 635-660	1.2		33
42	A Simulation Algorithm for Dynamic Structure DEVS Modeling 2006 ,			4
41	Applying DEVS Modeling for Discrete Event Multiple Model Control of a Time Varying Plant 2006 ,			2
40	ATLAS: A language to specify traffic models using Cell-DEVS. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 313-337	3.9		7
39	Modeling Robot Path Planning with CD++. <i>Lecture Notes in Computer Science</i> , 2006 , 595-604	0.9		1
38	Improved Cell-DEVS Models for Fire Spreading Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 472-480.	0.9		1
37	DEVStone: a benchmarking technique for studying performance of DEVS modeling and simulation environments 2005 ,			4
36	Simulating Market Dynamics with CD++. <i>Lecture Notes in Computer Science</i> , 2005 , 368-372	0.9		1
35	Cell-DEVS/GDEVs for Complex Continuous Systems. <i>Simulation</i> , 2005 , 81, 137-151	1.2		15
34	Specification of Discrete Event Models for Fire Spreading. <i>Simulation</i> , 2005 , 81, 103-117	1.2		18
33	Creating Spatially-Shaped Defense Models Using DEVS and Cell-DEVS. <i>Journal of Defense Modeling and Simulation</i> , 2005 , 2, 121-143	0.4		1
32	Using Cell-DEVS for Modeling Complex Cell Spaces. <i>Lecture Notes in Computer Science</i> , 2005 , 233-242	0.9		
31	A Model of Virus Spreading Using Cell-DEVS. <i>Lecture Notes in Computer Science</i> , 2005 , 373-377	0.9		5
30	A Model-Driven Technique for Development of Embedded Systems Based on the DEVS Formalism 2005 , 363-383			3
29	Improved Cell-DEVS Model Definition in CD++. <i>Lecture Notes in Computer Science</i> , 2004 , 803-812	0.9		8
28	Applying Cell-DEVS in 3D Free-Form Shape Modeling. <i>Lecture Notes in Computer Science</i> , 2004 , 81-90	0.9		2

27	CD++: a toolkit to develop DEVS models. <i>Software - Practice and Experience</i> , 2002 , 32, 1261-1306	2.5	89
26	Burrows-Wheeler compression with variable length integer codes. <i>Software - Practice and Experience</i> , 2002 , 32, 1307-1316	2.5	16
25	N-dimensional Cell-DEVS Models. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2002 , 12, 135-157	1	36
24	Using the Alfa-1 simulated processor for educational purposes. <i>Journal on Educational Resources in Computing</i> , 2001 , 1, 111-151		5
23	Experiences with Devs Modelling and Simulation. <i>International Journal of Modelling and Simulation</i> , 2001 , 21, 138-147	1.5	1
22	Timed Cell-DEVS: Modeling and Simulation of Cell Spaces 2001 , 187-214		20
21	Implementing real-time services in MINIX. <i>Operating Systems Review (ACM)</i> , 1995 , 29, 75-84	0.8	1
20	Representation and analysis of spatial resources in construction simulation		5
19	M/CD++: modeling continuous systems using Modelica and DEVS		5
18	New parallel simulation techniques of DEVS and Cell-DEVS in CD++		6
17	Modeling and simulation of hardware/software systems with CD++		2
16	Implementing parallel Cell-DEVS		8
15	Modeling and simulation of complex systems with Cell-DEVS		2
14	Design and implementation of a library of network protocols in CD++		1
13	Performance analysis of real-time DEVS models		6
12	Cell-DEVS quantization techniques in a fire spreading application		11
11	Specifying truck movement in traffic models using cell-DEVS		5
10	Models of complex physical systems using Cell-DEVS		11

9	Application of the ATLAS language in models of urban traffic		3
8	Defining models of urban traffic using the TSC tool		3
7	Discrete-Event Modeling and Simulation		82
6	Real-Time Simulation Technologies: Principles, Methodologies, and Applications		6
5	The DEVS Formalism	62-102	
4	Models for continuous and hybrid system simulation		2
3	Mobile experimentation using modelling and simulation in the Fog/Cloud. <i>Journal of Simulation</i> ,1-22	1.9	2
2	A grid-shaped cellular modeling approach for wireless sensor networks. <i>Simulation</i> ,003754972210933	1.2	0
1	Integrating I-DEVS and schedulability methods for analyzing real-time systems constraints. <i>Simulation</i> ,003754972210995	1.2	