

Sergey Kovalchuk

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1834405/sergey-kovalchuk-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

74
papers

566
citations

12
h-index

19
g-index

87
ext. papers

692
ext. citations

2
avg, IF

4.24
L-index

#	Paper	IF	Citations
74	CLAVIRE: e-Science infrastructure for data-driven computing. <i>Journal of Computational Science</i> , 2012 , 3, 504-510	3.4	71
73	Simulation of patient flow in multiple healthcare units using process and data mining techniques for model identification. <i>Journal of Biomedical Informatics</i> , 2018 , 82, 128-142	10.2	44
72	Execution time estimation for workflow scheduling. <i>Future Generation Computer Systems</i> , 2017 , 75, 376-387	3.7	43
71	Distributed data-driven platform for urgent decision making in cardiological ambulance control. <i>Future Generation Computer Systems</i> , 2018 , 79, 144-154	7.5	28
70	Data-driven modeling of clinical pathways using electronic health records. <i>Procedia Computer Science</i> , 2017 , 121, 835-842	1.6	18
69	Deadline-driven Resource Management within Urgent Computing Cyberinfrastructure. <i>Procedia Computer Science</i> , 2013 , 18, 2203-2212	1.6	18
68	Complex Data-driven Predictive Modeling in Personalized Clinical Decision Support for Acute Coronary Syndrome Episodes. <i>Procedia Computer Science</i> , 2016 , 80, 518-529	1.6	17
67	Pattern-based Mining in Electronic Health Records for Complex Clinical Process Analysis. <i>Procedia Computer Science</i> , 2017 , 119, 197-206	1.6	17
66	Workflow-based Collaborative Decision Support for Flood Management Systems. <i>Procedia Computer Science</i> , 2013 , 18, 2213-2222	1.6	13
65	Personalized Clinical Decision Support with Complex Hospital-Level Modelling. <i>Procedia Computer Science</i> , 2015 , 66, 392-401	1.6	12
64	Execution Time Estimation for Workflow Scheduling 2014 ,		12
63	Towards Ensemble Simulation of Complex Systems. <i>Procedia Computer Science</i> , 2015 , 51, 532-541	1.6	11
62	Domain Ontologies Integration for Virtual Modelling and Simulation Environments. <i>Procedia Computer Science</i> , 2014 , 29, 2507-2514	1.6	11
61	Towards evolutionary discovery of typical clinical pathways in electronic health records. <i>Procedia Computer Science</i> , 2017 , 119, 234-244	1.6	11
60	Knowledge-Based Resource Management for Distributed Problem Solving. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 121-128		11
59	Human-Computer Interaction in Electronic Medical Records: From the Perspectives of Physicians and Data Scientists. <i>Procedia Computer Science</i> , 2016 , 100, 915-920	1.6	11
58	Analysis of publication activity of computational science society in 2001-2017 using topic modelling and graph theory. <i>Journal of Computational Science</i> , 2018 , 26, 193-204	3.4	10

57	Analysis of Computational Science Papers from ICCS 2001-2016 using Topic Modeling and Graph Theory. <i>Procedia Computer Science</i> , 2017 , 108, 7-17	1.6	10
56	Virtual Simulation Objects concept as a framework for system-level simulation 2012 ,		10
55	A Conceptual Approach to Complex Model Management with Generalized Modelling Patterns and Evolutionary Identification. <i>Complexity</i> , 2018 , 2018, 1-15	1.6	9
54	Towards Better Workflow Execution Time Estimation. <i>IERI Procedia</i> , 2014 , 10, 216-223		8
53	Classification issues within ensemble-based simulation: application to surge floods forecasting. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1183-1197	3.5	8
52	Text and Data Mining Techniques in Judgment Open Data Analysis for Administrative Practice Control. <i>Communications in Computer and Information Science</i> , 2019 , 169-180	0.3	8
51	Forecasting Purchase Categories with Transition Graphs Using Financial and Social Data. <i>Lecture Notes in Computer Science</i> , 2018 , 439-454	0.9	8
50	Coupling Game Theory and Discrete-Event Simulation for Model-Based Ambulance Dispatching. <i>Procedia Computer Science</i> , 2018 , 136, 398-407	1.6	7
49	Towards Predicting Trend of Scientific Research Topics using Topic Modeling. <i>Procedia Computer Science</i> , 2018 , 136, 304-310	1.6	7
48	Comparison of Temporal and Non-Temporal Features Effect on Machine Learning Models Quality and Interpretability for Chronic Heart Failure Patients. <i>Procedia Computer Science</i> , 2019 , 156, 87-96	1.6	6
47	A Technology for BigData Analysis Task Description Using Domain-specific Languages. <i>Procedia Computer Science</i> , 2014 , 29, 488-498	1.6	6
46	Towards Infrastructure for Knowledge-based Decision Support in Clinical Practice. <i>Procedia Computer Science</i> , 2016 , 100, 907-914	1.6	6
45	Dynamic mortality prediction using machine learning techniques for acute cardiovascular cases. <i>Procedia Computer Science</i> , 2018 , 136, 351-358	1.6	6
44	Unified domain-specific language for collecting and processing data of social media. <i>Journal of Intelligent Information Systems</i> , 2018 , 51, 389-414	2.1	5
43	Knowledge-Based Support for Complex Systems Exploration in Distributed Problem Solving Environments. <i>Communications in Computer and Information Science</i> , 2013 , 147-161	0.3	5
42	Identification of risk factors for patients with diabetes: diabetic polyneuropathy case study. <i>BMC Medical Informatics and Decision Making</i> , 2020 , 20, 201	3.6	5
41	Simulation of Patient Flow and Load of Departments in a Specialized Medical Center. <i>Procedia Computer Science</i> , 2016 , 101, 143-151	1.6	5
40	Multiscale modeling of comorbidity relations in hypertensive outpatients. <i>Procedia Computer Science</i> , 2017 , 121, 446-450	1.6	4

39	Knowledge-Based Expressive Technologies Within Cloud Computing Environments. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 1-11	0.4	4
38	Agent-based Modelling Using Ensemble Approach with Spatial and Temporal Composition. <i>Procedia Computer Science</i> , 2016 , 80, 530-541	1.6	4
37	Holistic Modeling of Chronic Diseases for Recommendation Elaboration and Decision Making. <i>Procedia Computer Science</i> , 2018 , 138, 228-237	1.6	4
36	Cloud Technology for Forecasting Accuracy Evaluation of Extreme Metocean Events. <i>Procedia Computer Science</i> , 2015 , 51, 2933-2937	1.6	3
35	Towards Model-Based Policy Elaboration on City Scale Using Game Theory: Application to Ambulance Dispatching. <i>Lecture Notes in Computer Science</i> , 2018 , 404-417	0.9	3
34	Modeling and Simulation Framework for Development of Interactive Virtual Environments. <i>Procedia Computer Science</i> , 2014 , 29, 332-342	1.6	3
33	Dynamic Selection of Ensemble Members in Multi-model Hydrometeorological Ensemble Forecasting. <i>Procedia Computer Science</i> , 2015 , 66, 220-227	1.6	3
32	High-Level Knowledge-Based Structures for Simulation within Urgent Computing Tasks. <i>Procedia Computer Science</i> , 2012 , 9, 1694-1703	1.6	3
31	Toolbox for Visual Explorative Analysis of Complex Temporal Multiscale Contact Networks Dynamics in Healthcare. <i>Procedia Computer Science</i> , 2016 , 80, 2107-2118	1.6	3
30	Deadline-driven approach for multi-fidelity surrogate-assisted environmental model calibration 2019 ,		2
29	Modelling and Analysis of Complex Patient-Treatment Process Using GraphMiner Toolbox. <i>Lecture Notes in Computer Science</i> , 2019 , 674-680	0.9	2
28	Analyzing the spatial distribution of individuals predisposed to arterial hypertension in Saint Petersburg using synthetic populations. <i>ITM Web of Conferences</i> , 2020 , 31, 03002	0.1	2
27	Simulation of emergency care for patients with ACS in Saint Petersburg for ambulance decision making. <i>Procedia Computer Science</i> , 2017 , 108, 2210-2219	1.6	2
26	Improving Electronic Medical Records with Support of Human Computer Interaction in Medical Information Systems. <i>Procedia Computer Science</i> , 2017 , 121, 469-474	1.6	2
25	Towards a simulation-based framework for decision support in healthcare quality assessment. <i>Procedia Computer Science</i> , 2017 , 119, 207-214	1.6	2
24	Provenance-based workflow composition with virtual simulation objects technology 2014 ,		2
23	e-Learning course design based on the virtual simulation objects concept 2014 ,		2
22	Linked-Data Integration for Workflow-Based Computational Experiments. <i>Communications in Computer and Information Science</i> , 2014 , 175-183	0.3	2

21	Post-hoc Interpretation of Clinical Pathways Clustering using Bayesian Inference. <i>Procedia Computer Science</i> , 2020 , 178, 264-273	1.6	2
20	Human Computer Interaction During Clinical Decision Support With Electronic Health Records Improvement. <i>International Journal of E-Health and Medical Communications</i> , 2020 , 11, 93-106	1.4	2
19	Emerging Complexity in Distributed Intelligent Systems. <i>Entropy</i> , 2020 , 22,	2.8	2
18	Preoperational Time Prediction for Percutaneous Coronary Intervention Using Machine Learning Techniques. <i>Procedia Computer Science</i> , 2016 , 101, 172-176	1.6	2
17	Evolutionary simulation of complex networks' structures with specific functional properties. <i>Journal of Applied Logic</i> , 2017 , 24, 39-49		1
16	Multi-View Data approaches in Recommender Systems: an Overview. <i>Procedia Computer Science</i> , 2017 , 119, 30-41	1.6	1
15	Evolutionary Simulation of Complex Networks Structures with Specific Functional Properties. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 63-72	0.4	1
14	Time Expressions Identification Without Human-Labeled Corpus for Clinical Text Mining in Russian. <i>Lecture Notes in Computer Science</i> , 2020 , 591-602	0.9	1
13	Comparison of Efficiency, Stability and Interpretability of Feature Selection Methods for Multiclassification Task on Medical Tabular Data. <i>Lecture Notes in Computer Science</i> , 2021 , 623-633	0.9	1
12	Application of clustering methods for detecting critical acute coronary syndrome patients. <i>Procedia Computer Science</i> , 2018 , 136, 370-379	1.6	1
11	Machine Learning Based Text Mining in Electronic Health Records: Cardiovascular Patient Cases. <i>Lecture Notes in Computer Science</i> , 2018 , 818-824	0.9	1
10	Hybrid Predictive Modelling for Finding Optimal Multipurpose Multicomponent Therapy. <i>Lecture Notes in Computer Science</i> , 2021 , 479-493	0.9	1
9	Dynamic Features Impact on the Quality of Chronic Heart Failure Predictive Modelling. <i>Studies in Health Technology and Informatics</i> , 2019 , 261, 179-184	0.5	1
8	Surrogate-assisted performance prediction for data-driven knowledge discovery algorithms: Application to evolutionary modeling of clinical pathways. <i>Journal of Computational Science</i> , 2022 , 59, 101562	3.4	0
7	Three-stage intelligent support of clinical decision making for higher trust, validity, and explainability.. <i>Journal of Biomedical Informatics</i> , 2022 , 127, 104013	10.2	0
6	Hybrid predictive modelling: Thyrotoxic atrial fibrillation case. <i>Journal of Computational Science</i> , 2021 , 51, 101365	3.4	0
5	Feature Engineering with Process Mining Technique for Patient State Predictions. <i>Lecture Notes in Computer Science</i> , 2021 , 584-592	0.9	0
4	Human Computer Interaction During Clinical Decision Support With Electronic Health Records Improvement 2021 , 1316-1330		0

- 3 Holistic Monitoring and Analysis of Healthcare Processes Through Public Internet Data Collection. *Lecture Notes in Computer Science*, **2019**, 42-50 0.9
- 2 Constructing Holistic Patient Flow Simulation Using System Approach. *Lecture Notes in Computer Science*, **2020**, 418-429 0.9
- 1 Investigating Application of Change Point Analysis in Monitoring Health Condition of Acute Coronary Syndrome Patients. *Procedia Computer Science*, **2018**, 136, 408-415 1.6