

Sergey Kovalchuk

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.

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	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
73	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
72	Hybrid predictive modelling: Thyrotoxic atrial fibrillation case. <i>Journal of Computational Science</i> , 2021 , 51, 101365	3.4	0
71	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
70	Hybrid Predictive Modelling for Finding Optimal Multipurpose Multicomponent Therapy. <i>Lecture Notes in Computer Science</i> , 2021 , 479-493	0.9	1
69	Feature Engineering with Process Mining Technique for Patient State Predictions. <i>Lecture Notes in Computer Science</i> , 2021 , 584-592	0.9	0
68	Human Computer Interaction During Clinical Decision Support With Electronic Health Records Improvement 2021 , 1316-1330		0
67	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
66	Constructing Holistic Patient Flow Simulation Using System Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 418-429	0.9	
65	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
64	Post-hoc Interpretation of Clinical Pathways Clustering using Bayesian Inference. <i>Procedia Computer Science</i> , 2020 , 178, 264-273	1.6	2
63	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
62	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
61	Emerging Complexity in Distributed Intelligent Systems. <i>Entropy</i> , 2020 , 22,	2.8	2
60	Deadline-driven approach for multi-fidelity surrogate-assisted environmental model calibration 2019 ,		2
59	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
58	Modelling and Analysis of Complex Patient-Treatment Process Using GraphMiner Toolbox. <i>Lecture Notes in Computer Science</i> , 2019 , 674-680	0.9	2

57	Holistic Monitoring and Analysis of Healthcare Processes Through Public Internet Data Collection. <i>Lecture Notes in Computer Science</i> , 2019 , 42-50	0.9	
56	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
55	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
54	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
53	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
52	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
51	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
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	Application of clustering methods for detecting critical acute coronary syndrome patients. <i>Procedia Computer Science</i> , 2018 , 136, 370-379	1.6	1
48	Dynamic mortality prediction using machine learning techniques for acute cardiovascular cases. <i>Procedia Computer Science</i> , 2018 , 136, 351-358	1.6	6
47	Towards Predicting Trend of Scientific Research Topics using Topic Modeling. <i>Procedia Computer Science</i> , 2018 , 136, 304-310	1.6	7
46	Holistic Modeling of Chronic Diseases for Recommendation Elaboration and Decision Making. <i>Procedia Computer Science</i> , 2018 , 138, 228-237	1.6	4
45	Investigating Application of Change Point Analysis in Monitoring Health Condition of Acute Coronary Syndrome Patients. <i>Procedia Computer Science</i> , 2018 , 136, 408-415	1.6	
44	A Conceptual Approach to Complex Model Management with Generalized Modelling Patterns and Evolutionary Identification. <i>Complexity</i> , 2018 , 2018, 1-15	1.6	9
43	Forecasting Purchase Categories with Transition Graphs Using Financial and Social Data. <i>Lecture Notes in Computer Science</i> , 2018 , 439-454	0.9	8
42	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
41	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
40	Execution time estimation for workflow scheduling. <i>Future Generation Computer Systems</i> , 2017 , 75, 376-387	3.7	43

39	Evolutionary simulation of complex networks' structures with specific functional properties. <i>Journal of Applied Logic</i> , 2017 , 24, 39-49		1
38	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
37	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
36	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
35	Multiscale modeling of comorbidity relations in hypertensive outpatients. <i>Procedia Computer Science</i> , 2017 , 121, 446-450	1.6	4
34	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
33	Data-driven modeling of clinical pathways using electronic health records. <i>Procedia Computer Science</i> , 2017 , 121, 835-842	1.6	18
32	Multi-View Data approaches in Recommender Systems: an Overview. <i>Procedia Computer Science</i> , 2017 , 119, 30-41	1.6	1
31	Pattern-based Mining in Electronic Health Records for Complex Clinical Process Analysis. <i>Procedia Computer Science</i> , 2017 , 119, 197-206	1.6	17
30	Towards a simulation-based framework for decision support in healthcare quality assessment. <i>Procedia Computer Science</i> , 2017 , 119, 207-214	1.6	2
29	Towards evolutionary discovery of typical clinical pathways in electronic health records. <i>Procedia Computer Science</i> , 2017 , 119, 234-244	1.6	11
28	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
27	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
26	Preoperational Time Prediction for Percutaneous Coronary Intervention Using Machine Learning Techniques. <i>Procedia Computer Science</i> , 2016 , 101, 172-176	1.6	2
25	Agent-based Modelling Using Ensemble Approach with Spatial and Temporal Composition. <i>Procedia Computer Science</i> , 2016 , 80, 530-541	1.6	4
24	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
23	Towards Infrastructure for Knowledge-based Decision Support in Clinical Practice. <i>Procedia Computer Science</i> , 2016 , 100, 907-914	1.6	6
22	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

21	Cloud Technology for Forecasting Accuracy Evaluation of Extreme Metocean Events. <i>Procedia Computer Science</i> , 2015 , 51, 2933-2937	1.6	3
20	Towards Ensemble Simulation of Complex Systems. <i>Procedia Computer Science</i> , 2015 , 51, 532-541	1.6	11
19	Personalized Clinical Decision Support with Complex Hospital-Level Modelling. <i>Procedia Computer Science</i> , 2015 , 66, 392-401	1.6	12
18	Dynamic Selection of Ensemble Members in Multi-model Hydrometeorological Ensemble Forecasting. <i>Procedia Computer Science</i> , 2015 , 66, 220-227	1.6	3
17	Towards Better Workflow Execution Time Estimation. <i>IERI Procedia</i> , 2014 , 10, 216-223		8
16	A Technology for BigData Analysis Task Description Using Domain-specific Languages. <i>Procedia Computer Science</i> , 2014 , 29, 488-498	1.6	6
15	Modeling and Simulation Framework for Development of Interactive Virtual Environments. <i>Procedia Computer Science</i> , 2014 , 29, 332-342	1.6	3
14	Domain Ontologies Integration for Virtual Modelling and Simulation Environments. <i>Procedia Computer Science</i> , 2014 , 29, 2507-2514	1.6	11
13	Provenance-based workflow composition with virtual simulation objects technology 2014 ,		2
12	Execution Time Estimation for Workflow Scheduling 2014 ,		12
11	Knowledge-Based Expressive Technologies Within Cloud Computing Environments. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 1-11	0.4	4
10	Evolutionary Simulation of Complex Networks Structures with Specific Functional Properties. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 63-72	0.4	1
9	e-Learning course design based on the virtual simulation objects concept 2014 ,		2
8	Linked-Data Integration for Workflow-Based Computational Experiments. <i>Communications in Computer and Information Science</i> , 2014 , 175-183	0.3	2
7	Workflow-based Collaborative Decision Support for Flood Management Systems. <i>Procedia Computer Science</i> , 2013 , 18, 2213-2222	1.6	13
6	Deadline-driven Resource Management within Urgent Computing Cyberinfrastructure. <i>Procedia Computer Science</i> , 2013 , 18, 2203-2212	1.6	18
5	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
4	High-Level Knowledge-Based Structures for Simulation within Urgent Computing Tasks. <i>Procedia Computer Science</i> , 2012 , 9, 1694-1703	1.6	3

- 3 CLAVIRE: e-Science infrastructure for data-driven computing. *Journal of Computational Science*, **2012**, 3, 504-510 3.4 71
- 2 Virtual Simulation Objects concept as a framework for system-level simulation **2012**, 10
- 1 Knowledge-Based Resource Management for Distributed Problem Solving. *Advances in Intelligent and Soft Computing*, **2011**, 121-128 11