

# Ladislav Hluchy

## List of Publications by Year in descending order

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Version: 2024-02-01

167  
papers

1,121  
citations

1039880

9  
h-index

501076

28  
g-index

181  
all docs

181  
docs citations

181  
times ranked

971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning and Deep Learning frameworks and libraries for large-scale data mining: a survey. Artificial Intelligence Review, 2019, 52, 77-124.	9.7	453
2	Perspectives on grid computing. Future Generation Computer Systems, 2010, 26, 1104-1115.	4.9	71
3	Grid computing technology for hydrological applications. Journal of Hydrology, 2011, 403, 186-199.	2.3	44
4	Benchmarking Traversal Operations over Graph Databases. , 2012, , .		44
5	Water resource quality monitoring using heterogeneous data and high-performance computations. Cybernetics and Systems Analysis, 2008, 44, 616-624.	0.4	35
6	The SemSets model for ad-hoc semantic list search. , 2012, , .		28
7	Data mining and integration for predicting significant meteorological phenomena. Procedia Computer Science, 2010, 1, 37-46.	1.2	26
8	A heuristics approach to mine behavioural data logs in mobile malware detection system. Data and Knowledge Engineering, 2018, 115, 129-151.	2.1	23
9	A roadmap for a dedicated Earth Science Grid platform. Earth Science Informatics, 2010, 3, 135-148.	1.6	18
10	Towards Large Scale Semantic Annotation Built on MapReduce Architecture. Lecture Notes in Computer Science, 2008, , 331-338.	1.0	16
11	Emails as graph. , 2012, , .		13
12	3D visualization the results of complicated Grid and Cloud-based applications. , 2010, , .		11
13	Concept of Energy Efficient ESP32 Chip for Industrial Wireless Sensor Network. , 2020, , .		11
14	Multiple Peer Chord Rings Approach for Device Discovery in IoT Environment. Procedia Computer Science, 2017, 110, 125-134.	1.2	9
15	Flood Forecasting in CrossGrid Project. Lecture Notes in Computer Science, 2004, , 51-60.	1.0	8
16	Hydro-meteorological Scenarios Using Advanced Data Mining and Integration. , 2009, , .		8
17	Agent-Based Simulation Platform Evaluation in the Context of Human Behavior Modeling. Lecture Notes in Computer Science, 2012, , 396-410.	1.0	8
18	Parallel Flood Modeling Systems. Lecture Notes in Computer Science, 2002, , 543-551.	1.0	8

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19	Ontology Assisted Access to Document Repositories in Public Sector Organizations. Lecture Notes in Computer Science, 2004, , 700-705.	1.0	8
20	Determination of Inundated Territories on the Basis of Integration of Heterogeneous Data. Journal of Automation and Information Sciences, 2007, 39, 42-51.	0.7	8
21	Platform for distributed execution of agents for trusted data collection. Procedia Computer Science, 2010, 1, 2023-2032.	1.2	7
22	Causal Analysis of an Agent-Based Model of Human Behaviour. Complexity, 2017, 2017, 1-18.	0.9	7
23	Manufacturing of weather forecasting simulations on high performance infrastructures. , 2016, , .		6
24	Flood Forecasting in a Grid Computing Environment. Lecture Notes in Computer Science, 2004, , 831-839.	1.0	6
25	Use of E-mail Social Networks for Enterprise Benefit. , 2010, , .		5
26	Mining environmental data in hydrological scenarios. , 2010, , .		5
27	Handling internal complexity in highly realistic agent-based models of human behaviour. , 2011, , .		5
28	Securing mobile agents for crisis management support. , 2012, , .		5
29	Exascale computing and data architectures for brownfield applications. , 2018, , .		5
30	Heterogeneous Exascale Computing. Topics in Intelligent Engineering and Informatics, 2020, , 81-110.	0.4	5
31	Service Oriented Architecture for Risk Assessment of Natural Disasters. Lecture Notes in Computer Science, 2006, , 357-363.	1.0	5
32	Concept of a Problem Solving Environment for Flood Forecasting. Lecture Notes in Computer Science, 2002, , 105-113.	1.0	5
33	Application of ADMIRE Data Mining and Integration Technologies in Environmental Scenarios. Lecture Notes in Computer Science, 2010, , 165-173.	1.0	5
34	Tools for Email Based Recommendation in Enterprise. Communications in Computer and Information Science, 2010, , 209-218.	0.4	5
35	ABSTRACTION LAYER FOR DEVELOPMENT AND DEPLOYMENT OF CLOUD SERVICES. Computer Science, 2012, 13, 79.	0.4	5
36	Parallel Program Model for Distributed Systems. Lecture Notes in Computer Science, 2000, , 250-257.	1.0	5

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37	Meteorological Phenomena Forecast Using Data Mining Prediction Methods. Lecture Notes in Computer Science, 2011, , 458-467.	1.0	5
38	Knowledge-based Platform for Environmental Risk Management. , 2007, , .		4
39	Combining object-oriented and ontology-based approaches in human behaviour modelling. , 2011, , .		4
40	Email Social Network Extraction and Search. , 2011, , .		4
41	Towards causal analysis of data from human behaviour simulations. , 2012, , .		4
42	Tailored platforms as cloud service. , 2015, , .		4
43	Clustering analysis of online discussion participants. Procedia Computer Science, 2018, 134, 186-195.	1.2	4
44	Anomaly Detection Method for Online Discussion. Procedia Computer Science, 2019, 155, 311-318.	1.2	4
45	Problemâ€solving environment for flood forecasting. Management of Environmental Quality, 2004, 15, 268-275.	2.2	3
46	Striped Replication from Multiple Sites in the Grid Environment. Lecture Notes in Computer Science, 2005, , 778-785.	1.0	3
47	Towards Scalable Grid Replica Optimization Framework. , 0, , .		3
48	Semantic Grid Services in K-Wf Grid. , 2006, , .		3
49	Advanced Data Integration and Data Mining for Enviromental Scenarios. , 2010, , .		3
50	Integration of secure agents with a secure communication infrastructure for crisis management. , 2011, , .		3
51	Optimized computing of parameters for functional regression in data mining. , 2012, , .		3
52	High-Level Abstraction Layers for Development and Deployment of Cloud Services. Communications in Computer and Information Science, 2012, , 208-219.	0.4	3
53	Virtual Speaking Head for Hearing Impaired People in Crisis Time. , 2013, , .		3
54	Transformation regression technique for data mining. , 2016, , .		3

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55	A comparative study of operational engineering for environmental and compute-intensive applications. <i>Array</i> , 2021, 12, 100096.	2.5	3
56	Knowledge-Based Runtime Prediction of Stateful Web Services for Optimal Workflow Construction. <i>Lecture Notes in Computer Science</i> , 2006, , 599-607.	1.0	3
57	Knowledge Management for Organisationally Mobile Public Employees. <i>Lecture Notes in Computer Science</i> , 2003, , 203-212.	1.0	3
58	Complicated Simulation Visualization Based on Grid and Cloud Computing. <i>Lecture Notes in Computer Science</i> , 2010, , 211-217.	1.0	3
59	Data mining and integration for environmental scenarios. , 2010, , .		3
60	New Method for Constructing a Visibility Graph-Network in 3D Space and a New Hybrid System of Modeling. <i>Computing and Informatics</i> , 2017, 36, 1107-1126.	0.4	3
61	Virtual reality of water management in a big town. , 0, 163, 1-6.		3
62	Model of Experience for Public Organisations with Staff Mobility. <i>Lecture Notes in Computer Science</i> , 2004, , 91-100.	1.0	2
63	Grid Based Flood Prediction Virtual Organization. , 2006, , .		2
64	Dissemination and exploitation of grids in Earth science. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
65	Services for replica consistency handling in data grids. <i>Physics of Particles and Nuclei Letters</i> , 2008, 5, 185-188.	0.1	2
66	A Testing Framework for OWL-DL Reasoning. , 2008, , .		2
67	Towards a Search System for the Web Exploiting Spatial Data of a Web Document. , 2010, , .		2
68	Experiments in applying advanced data mining and integration to hydro-meteorological scenarios. , 2011, , .		2
69	Graph-based analysis of data from human behaviour simulations. , 2012, , .		2
70	Abstraction approach for developing and delivering cloud-based services. , 2012, , .		2
71	Agent-based integration of rescue systems for first responders. , 2012, , .		2
72	A novel approach for developing interoperable services in cloud environment. , 2013, , .		2

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73	Summarizing the behaviour of complex dynamic systems. , 2013, , .		2
74	Abstract model of k-cloud computing. , 2014, , .		2
75	Approach for enterprise search and interoperability using lightweight semantic. , 2014, , .		2
76	Enhancing mobile device security with process mining. , 2016, , .		2
77	Improving Inter-Enterprise Collaboration with Recommendation Tool based on Lightweight Semantics in Emails. Procedia Computer Science, 2018, 138, 486-491.	1.2	2
78	A Virtual Reality Visualization Tool for Three-Dimensional Biomedical Nanostructures. Journal of Physics: Conference Series, 2018, 1098, 012001.	0.3	2
79	CIS - A Monitoring System for PC Clusters. Lecture Notes in Computer Science, 2000, , 225-232.	1.0	2
80	Generating Semantic Descriptions of Web and Grid Services. , 2007, , 93-102.		2
81	Automatic Data Reuse in Grid Workflow Composition. Lecture Notes in Computer Science, 2008, , 194-202.	1.0	2
82	Visualization Tool and Its Integration in a Gateway for Astronomy and Astrophysics. Advances in Intelligent and Soft Computing, 2011, , 291-297.	0.2	2
83	Methods and Experiences of Parallelizing Flood Models. Lecture Notes in Computer Science, 2003, , 677-680.	1.0	2
84	USING ADVANCED DATA MINING AND INTEGRATION IN ENVIRONMENTAL PREDICTION SCENARIOS. Computer Science, 2012, 13, 5.	0.4	2
85	Towards More Realistic Human Behaviour Simulation: Modelling Concept, Deriving Ontology and Semantic Framework. Topics in Intelligent Engineering and Informatics, 2012, , 1-17.	0.4	2
86	High Performance Computing with a big Data: 3D Visualization of the Research Results. Research in Computing Science, 2015, 102, 9-19.	0.1	2
87	Virtual Reality Pave the Way for Better Understand Untouchable Research Results. Lecture Notes in Computer Science, 2016, , 208-217.	1.0	2
88	Decision influence and proactive sale support in a chain of convenience stores. , 2017, , .		2
89	Flood modeling system and its parallelization. , 0, , .		1
90	Parallelizing Flood Model for Linux Clusters with MPI. Lecture Notes in Computer Science, 2004, , 521-527.	1.0	1

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91	Parallelizing Flood Models with MPI: Approaches and Experiences. Lecture Notes in Computer Science, 2004, , 425-428.	1.0	1
92	Content Synchronization in Replicated Grid Database Resources. , 2007, , .		1
93	Mining and Integration of Environmental Data. , 2008, , .		1
94	Optimizing description logic reasoning for the large-scale semantic repositories. Concurrency Computation Practice and Experience, 2009, 21, 635-650.	1.4	1
95	Distributed agent-based architecture for management of crisis situations using trusted code execution. , 2010, , .		1
96	Prediction of significant meteorological phenomena using advanced data mining and integration methods. , 2010, , .		1
97	Using advanced data mining and integration in environmental risk management. , 2011, , .		1
98	Distributed secure agent platform for crisis management. , 2011, , .		1
99	Distributed data integration and mining. , 2011, , .		1
100	Exploring human behaviour models through causal summaries and machine learning. , 2013, , .		1
101	Data mining in hydrological domain. , 2014, , .		1
102	Unified nanoscale gateway to HPC and grid environments. , 2014, , .		1
103	Validation of parameter importance by regression. , 2014, , .		1
104	General regression in cloud computing. , 2014, , .		1
105	Information collection and presentation enriched by remote sensor data. , 2015, , .		1
106	Center for risk research in urban water-supply systems. , 2015, , .		1
107	Methodology for intercloud multicriteria optimization. , 2015, , .		1
108	Problem solving environment for water-supply systems. , 2016, , .		1

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109	Virtual reality as needful factor of intervention in natural disasters. , 2017, , .		1
110	Improved regression method with interval estimation. , 2017, , .		1
111	Spatiotemporal Modelling of Transport Demand. Procedia Computer Science, 2020, 175, 349-356.	1.2	1
112	Empowering Automatic Semantic Annotation in Grid. , 2007, , 302-311.		1
113	CrossGrid Integrated Workflow Management System. Lecture Notes in Computer Science, 2005, , 1032-1039.	1.0	1
114	Knowledge-Based Grid Workflow System. Lecture Notes in Computer Science, 2007, , 265-272.	1.0	1
115	DISTRIBUTED WEB-SCALE INFRASTRUCTURE FOR CRAWLING, INDEXING AND SEARCH WITH SEMANTIC SUPPORT. Computer Science, 2012, 13, 5.	0.4	1
116	Predicting the Probability of Exceeding Critical System Thresholds. Problems in Programming, 2018, , 189-196.	0.1	1
117	Replica Update Propagation for Grid Data Resources. , 2006, , .		0
118	Welcome Message from Conference Chairs and Program Chairs. , 2006, , .		0
119	Optimizing Description Logics Reasoning for the Semantic-Based Grid Repositories. , 2007, , .		0
120	RAPORT - a knowledge support system for administrative workflow processes. International Conference on Application of Concurrency To System Design, 2007, , .	0.0	0
121	Design of Visualization tool for Grid Based Parametric Study. , 2009, , .		0
122	On-Line Visualization as a Sequence Grid Application for Parametric Studies. , 2009, , .		0
123	Using ADMIRE data mining and integration tools in hydrological forecast use case. , 2011, , .		0
124	Using ADMIRE framework and language for data mining and integration in environmental application scenarios. , 2011, , .		0
125	ADMIRE platform for distributed data integration and mining. , 2011, , .		0
126	Development Framework for Cloud Services. Communications in Computer and Information Science, 2012, , 137-147.	0.4	0



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127	Towards a practical semantic search - case study on the TV guide domain. , 2013, , .		0
128	Dynamic agent platform discovery for real-time resource selection. , 2013, , .		0
129	Agent-based information integration using generated user forms. , 2013, , .		0
130	An Abstraction Model for High-Level Application Programming on the Cloud. Studies in Computational Intelligence, 2013, , 295-306.	0.7	0
131	3d visualization of the simulation research results of new method for cooperative of a group of mobile agents for swarm behavior simulation. , 2013, , .		0
132	Development and deployment of cloud services via abstraction layer. , 2013, , .		0
133	Welcome from the chairs. , 2014, , .		0
134	Use of polls to seamlessly collect and aggregate semi-structured information for crisis response. , 2015, , .		0
135	Lightweight Semantic approach for enterprise interoperability issues. , 2015, , .		0
136	The Usefulness of the Virtual Speaking Head, as Well as 3D Visualization Tools in the New Presentation Technologies. , 2015, , .		0
137	REDIRNET " Emergency responder data interoperability network. , 2016, , .		0
138	New 3D Education Technology for Students with Delimited Ability. , 2016, , .		0
139	Cluster identification in time dependent multidimensional data. , 2017, , .		0
140	Geospatial preprocessing for situational assessment through hydraulic simulations. , 2017, , .		0
141	Crawling and Analysis of Online Discussions in Major Slovak National Newspapers. , 2018, , .		0
142	Enhanced Data Modelling Approach with Interval Estimation. , 2018, , .		0
143	Change Detection and Notification Method of the Rich Internet Application Content. , 2018, , .		0
144	Short-Term Rainfall Estimation by Machine Learning Methods. , 2019, , .		0

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145	Reference Exascale Architecture. , 2019, , .		0
146	Executable Specification Language for Parallel Symbolic Computation. Lecture Notes in Computer Science, 2000, , 754-757.	1.0	0
147	REMARK â€“ Reusable Agent-Based Experience Management and Recommender Framework. Lecture Notes in Computer Science, 2004, , 599-606.	1.0	0
148	Data Management in Flood Prediction. Lecture Notes in Computer Science, 2005, , 872-879.	1.0	0
149	Interactive In-Job Workflows. Lecture Notes in Computer Science, 2008, , 116-125.	1.0	0
150	On Automated Testing of Description Logic Reasoners. Lecture Notes in Computer Science, 2008, , 13-25.	1.0	0
151	Back-Edge Heuristic for Efficient Data Distribution in Grid Systems. Lecture Notes in Computer Science, 2008, , 51-56.	1.0	0
152	Visualization service for grid-oriented applications of natural disasters. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	0
153	Data fusion Grid segment. KosmÃ­na Nauka Ã­ TehnologÃ­, 2009, 15, 49-55.	0.1	0
154	Data Mining and Integration for Environmental Data Archives. Russian Journal of Earth Sciences, 2009, 11, 1-6.	0.2	0
155	Mining Environmental Data in the ADMIRE Project Using New Advanced Methods and Tools. International Journal of Distributed Systems and Technologies, 2010, 1, 1-13.	0.6	0
156	WORKFLOW COMPOSITION AND DESCRIPTION TOOL. , 2011, , .		0
157	Visualization Tool for Scientific Gateway. Smart Innovation, Systems and Technologies, 2011, , 91-98.	0.5	0
158	Scientific Gateway and Visualization Tool. Lecture Notes in Computer Science, 2011, , 246-250.	1.0	0
159	VISEMAS AND VIRTUAL SPEAKING HEAD AS A COMMUNICATION FORM. , 2014, , .		0
160	MIXED REALITY AS ONE OF MAIN COMPONENTS OF THE SCIENTIFIC GATEWAY. , 2019, , .		0
161	Exascale Flood Modelling in Environment Supporting Urgent Computing. Advances in Intelligent Systems and Computing, 2020, , 384-391.	0.5	0
162	Reference Exascale Architecture (Extended Version). Computing and Informatics, 2020, 39, 644-677.	0.4	0

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163	Augmented Reality Based Scientific Gateway as Education Form. Advances in Intelligent Systems and Computing, 2020, , 43-48.	0.5	0
164	A Large-Scale Semantic Grid Repository. , 2008, , 738-745.		0
165	Grid Problem Solving Environment for Stereology Based Modeling. , 2007, , 1417-1434.		0
166	3D Big Data Modeling of Untouchable Research Results. , 2021, , .		0
167	Geovisualisation Service for Grid-Based Assessment of Natural Disasters. , 2008, , 880-887.		0