

# Michael R Lyu

## List of Publications by Year in descending order

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100  
papers

4,142  
citations

430754

18  
h-index

434063

31  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collaborative Web Service QoS Prediction via Neighborhood Integrated Matrix Factorization. IEEE Transactions on Services Computing, 2013, 6, 289-299.	3.2	363
2	WSRec: A Collaborative Filtering Based Web Service Recommender System. , 2009, , .		341
3	Distributed QoS Evaluation for Real-World Web Services. , 2010, , .		264
4	Software Reliability Engineering: A Roadmap. , 2007, , .		176
5	Localized support vector regression for time series prediction. Neurocomputing, 2009, 72, 2659-2669.	3.5	141
6	An Assessment of Testing-Effort Dependent Software Reliability Growth Models. IEEE Transactions on Reliability, 2007, 56, 198-211.	3.5	138
7	Service-Generated Big Data and Big Data-as-a-Service: An Overview. , 2013, , .		136
8	Cloud Service Reliability Enhancement via Virtual Machine Placement Optimization. IEEE Transactions on Services Computing, 2017, 10, 902-913.	3.2	130
9	Clustering Web services to facilitate service discovery. Knowledge and Information Systems, 2014, 38, 207-229.	2.1	110
10	Formal Models for Expert Finding on DBLP Bibliography Data. , 2008, , .		108
11	Semi-supervised SVM batch mode active learning for image retrieval. , 2008, , .		102
12	WSEXPRESS: A QoS-aware Search Engine for Web Services. , 2010, , .		99
13	Online QoS Prediction for Runtime Service Adaptation via Adaptive Matrix Factorization. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2911-2924.	4.0	89
14	Code Completion with Neural Attention and Pointer Networks. , 2018, , .		86
15	On the Intruder Detection for Sinkhole Attack in Wireless Sensor Networks. , 2006, , .		85
16	Estimation and Analysis of Some Generalized Multiple Change-Point Software Reliability Models. IEEE Transactions on Reliability, 2011, 60, 498-514.	3.5	85
17	CloudRank: A QoS-Driven Component Ranking Framework for Cloud Computing. , 2010, , .		81
18	Location-Based Hierarchical Matrix Factorization for Web Service Recommendation. , 2014, , .		75

#	ARTICLE	IF	CITATIONS
19	Batch Mode Active Learning with Applications to Text Categorization and Image Retrieval. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1233-1248.	4.0	70
20	A Distributed Replication Strategy Evaluation and Selection Framework for Fault Tolerant Web Services. , 2008, , .		67
21	A Privacy-Preserving QoS Prediction Framework for Web Service Recommendation. , 2015, , .		65
22	Boosting the Transferability of Adversarial Samples via Attention. , 2020, , .		64
23	An adaptive QoS-aware fault tolerance strategy for web services. Empirical Software Engineering, 2010, 15, 323-345.	3.0	62
24	Web Service QoS Prediction via Collaborative Filtering: A Survey. IEEE Transactions on Services Computing, 2022, 15, 2455-2472.	3.2	60
25	Maxi€Min Margin Machine: Learning Large Margin Classifiers Locally and Globally. IEEE Transactions on Neural Networks, 2008, 19, 260-272.	4.8	59
26	A QoS-aware fault tolerant middleware for dependable service composition. , 2009, , .		55
27	FTCloud: A Component Ranking Framework for Fault-Tolerant Cloud Applications. , 2010, , .		53
28	Learning large margin classifiers locally and globally. , 2004, , .		48
29	MatchSim: a novel similarity measure based on maximum neighborhood matching. Knowledge and Information Systems, 2012, 32, 141-166.	2.1	47
30	Imbalanced learning with a biased minimax probability machine. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 913-923.	5.5	45
31	Reputation-Aware QoS Value Prediction of Web Services. , 2013, , .		42
32	Collaborative image retrieval via regularized metric learning. Multimedia Systems, 2006, 12, 34-44.	3.0	41
33	Software Reliability Modeling with Test Coverage: Experimentation and Measurement with A Fault-Tolerant Software Project. , 2007, , .		37
34	Maximizing sensitivity in medical diagnosis using biased minimax probability Machine. IEEE Transactions on Biomedical Engineering, 2006, 53, 821-831.	2.5	35
35	TagRec: Leveraging Tagging Wisdom for Recommendation. , 2009, , .		35
36	Dynamic Web Service Composition: A New Approach in Building Reliable Web Service. , 2008, , .		34

#	ARTICLE	IF	CITATIONS
37	Toward Optimal Deployment of Communication-Intensive Cloud Applications. , 2011, , .		33
38	PageSim: A Novel Link-Based Similarity Measure for the World Wide Web. , 2006, , .		29
39	Sentomist: Unveiling Transient Sensor Network Bugs via Symptom Mining. , 2010, , .		25
40	Emerging App Issue Identification from User Feedback: Experience on WeChat. , 2019, , .		25
41	Deep Validation: Toward Detecting Real-World Corner Cases for Deep Neural Networks. , 2019, , .		25
42	Aggregated Temporal Tensor Factorization Model for Point-of-Interest Recommendation. Neural Processing Letters, 2018, 47, 975-992.	2.0	24
43	Progressive Finite Newton Approach To Real-time Nonrigid Surface Detection. , 2007, , .		23
44	WS-DREAM: A distributed reliability assessment Mechanism for Web Services. , 2008, , .		23
45	PAID: Prioritizing app issues for developers by tracking user reviews over versions. , 2015, , .		23
46	CRaDL: Deep code retrieval based on semantic Dependency Learning. Neural Networks, 2021, 141, 385-394.	3.3	22
47	Automating App Review Response Generation. , 2019, , .		21
48	Modeling and exploiting tag relevance for Web service mining. Knowledge and Information Systems, 2014, 39, 153-173.	2.1	20
49	A QoS-Aware Middleware for Fault Tolerant Web Services. , 2008, , .		18
50	CARP: Context-Aware Reliability Prediction of Black-Box Web Services. , 2017, , .		18
51	Semi-supervised Learning from General Unlabeled Data. , 2008, , .		15
52	Asymmetric Correlation Regularized Matrix Factorization for Web Service Recommendation. , 2016, , .		15
53	Towards Global Explanations of Convolutional Neural Networks With Concept Attribution. , 2020, , .		15
54	Delay-Minimized Route Design for Wireless Sensor-Actuator Networks. , 2007, , .		13

#	ARTICLE	IF	CITATIONS
55	POWER-SPEED: A Power-Controlled Real-Time Data Transport Protocol for Wireless Sensor-Actuator Networks. , 2007, , .		13
56	Supervised Self-taught Learning: Actively transferring knowledge from unlabeled data. , 2009, , .		12
57	NRCF: A Novel Collaborative Filtering Method for Service Recommendation. , 2011, , .		12
58	An Empirical Study on Large-Scale Content-Based Image Retrieval. , 2007, , .		11
59	Direct Zero-Norm Optimization for Feature Selection. , 2008, , .		11
60	Test selection for result inspection via mining predicate rules. , 2009, , .		11
61	Automatic string test data generation for detecting domain errors. Software Testing Verification and Reliability, 2010, 20, 209-236.	1.7	11
62	Extending Link-based Algorithms for Similar Web Pages with Neighborhood Structure. , 2007, , .		10
63	Mining test oracles of web search engines. , 2011, , .		10
64	Maximum margin semi-supervised learning with irrelevant data. Neural Networks, 2015, 70, 90-102.	3.3	9
65	Exploration of instantaneous amplitude and frequency features for epileptic seizure prediction. , 2012, , .		8
66	Budget constrained non-monotonic feature selection. Neural Networks, 2015, 71, 214-224.	3.3	8
67	A Multimodal and Multilevel Ranking Framework for Content-Based Video Retrieval. , 2007, , .		7
68	SpyAware: Investigating the privacy leakage signatures in app execution traces. , 2015, , .		7
69	Incorporating geographical location for team formation in social coding sites. World Wide Web, 2020, 23, 153-174.	2.7	7
70	COMPONENT-BASED EMBEDDED SOFTWARE ENGINEERING: DEVELOPMENT FRAMEWORK, QUALITY ASSURANCE AND A GENERIC ASSESSMENT ENVIRONMENT. International Journal of Software Engineering and Knowledge Engineering, 2002, 12, 107-133.	0.6	6
71	A Framework for Inheritance Testing from VDM++ Specifications. , 2006, , .		5
72	Classification Based on Gabor Filter Using RBPNN Classification. , 2006, , .		5

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73	DR2: Dynamic Request Routing for Tolerating Latency Variability in Online Cloud Applications. , 2013, , .		5
74	Trace Bench: An Open Data Set for Trace-Oriented Monitoring. , 2014, , .		5
75	Concolic Execution on Small-Size Binaries: Challenges and Empirical Study. , 2017, , .		5
76	A Multi-Scale Tikhonov Regularization Scheme for Implicit Surface Modelling. , 2007, , .		4
77	A Novel Coalitional Game Model for Security Issues in Wireless Networks. , 2008, , .		4
78	Expert Perspectives on AI. IEEE Software, 2020, 37, 87-94.	2.1	4
79	Emerging App Issue Identification via Online Joint Sentiment-Topic Tracing. IEEE Transactions on Software Engineering, 2022, 48, 3025-3043.	4.3	4
80	Maximum Margin based Semi-supervised Spectral Kernel Learning. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
81	The generalized dependency degree between attributes. Journal of the Association for Information Science and Technology, 2007, 58, 2280-2294.	2.6	3
82	IntelliAd: Assisting Mobile App Developers in Measuring Ad Costs Automatically. , 2017, , .		3
83	COMPARATIVE STUDIES ON THE CT IMAGE RECONSTRUCTION BASED ON THE RBF NEURAL NETWORK. , 2005, , .		2
84	Constructing Robust and Resilient Framework for Cooperative Video Streaming. , 2006, , .		2
85	An Adaptive Delay-Minimized Route Design for Wireless Sensor-Actuator Networks. , 2007, , .		2
86	Voronoi-Based Sleeping Configuration in Wireless Sensor Networks with Location Error. , 2008, , .		2
87	Mitigate the Bottleneck of Underwater Acoustic Sensor Networks via Priority Scheduling. , 2010, , .		2
88	Entropy-Based Service Selection with Uncertain QoS for Mobile Cloud Computing. , 2015, , .		2
89	A Generic Approach for Accelerating Stochastic Zeroth-Order Convex Optimization. , 2018, , .		2
90	Exploiting Inactive Examples for Natural Language Generation With Data Rejuvenation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 931-943.	4.0	2

#	ARTICLE	IF	CITATIONS
91	An Automated Approach to Inheritance and Polymorphic Testing using a VDM++ Specification. , 2006, , .		1
92	Energy-efficient On-demand Active Contour Service for sensor networks. , 2009, , .		1
93	On Sensor Network Reconfiguration for Downtime-Free System Migration. Mobile Networks and Applications, 2009, 14, 241-252.	2.2	1
94	Accurate extraction of human faces and their components from color digital images based on a hierarchical model. , 2011, , .		1
95	Towards an Open Data Set for Trace-Oriented Monitoring. , 2014, , .		1
96	Guest editorial: Recommendation techniques for services computing and cloud computing. IEEE Transactions on Services Computing, 2015, 8, 422-424.	3.2	1
97	Textout: Detecting Text-Layout Bugs in Mobile Apps via Visualization-Oriented Learning. , 2019, , .		1
98	Developing Aerospace Applications with a ReliableWeb Services Paradigm. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	0
99	Surviving holes and barriers in geographic data reporting for Wireless Sensor Networks. , 2009, , .		0
100	Risk Control of Best Arm Identification in Multi-armed Bandits via Successive Rejects. , 2017, , .		0