Patrick C K Hung

List of Publications by Year
in descending order

134 papers	2,029 citations	304743 22 h-index	330143 37 g-index
139 all docs	139 docs citations	139 times ranked	1753 citing authors

#	Article	IF	Citations
1	An Adaptive Mechanism for Dynamically Collaborative Computing Power and Task Scheduling in Edge Environment. IEEE Internet of Things Journal, 2023, 10, 3118-3129.	8.7	7
2	CTL-Based Adaptive Service Composition in Edge Networks. IEEE Transactions on Services Computing, 2023, 16, 1051-1065.	4.6	4
3	A Survey on Web Service QoS Prediction Methods. IEEE Transactions on Services Computing, 2022, 15, 2439-2454.	4.6	37
4	Service Configuration Optimization in Edge–Cloud Networks Leveraging Log Analysis. IEEE Internet of Things Journal, 2022, 9, 6719-6731.	8.7	0
5	Effects of social robots on depressive symptoms in older adults: a scoping review. Library Hi Tech, 2022, 40, 1108-1126.	5.1	12
6	A Resource Recommendation Model for Heterogeneous Workloads in Fog-Based Smart Factory Environment. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1731-1743.	5.2	3
7	EVFL: An explainable vertical federated learning for data-oriented Artificial Intelligence systems. Journal of Systems Architecture, 2022, 126, 102474.	4.3	23
8	A new model for trustworthy web service <scp>QoS</scp> prediction. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	0
9	Coordinate-based efficient indexing mechanism for intelligent IoT systems in heterogeneous edge computing. Journal of Parallel and Distributed Computing, 2022, 166, 45-56.	4.1	8
10	Scientific Workflows in IoT Environments: A Data Placement Strategy Based on Heterogeneous Edge-Cloud Computing. ACM Transactions on Management Information Systems, 2022, 13, 1-26.	2.8	23
11	IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. IEEE Internet of Things Journal, 2021, 8, 12610-12622.	8.7	47
12	Editorial: Special Section on Services Computing Management for Artificial Intelligence and Machine Learning. IEEE Transactions on Engineering Management, 2021, 68, 101-104.	3.5	2
13	IEEE Access Special Section Editorial: Blockchain-Enabled Trustworthy Systems. IEEE Access, 2021, 9, 67680-67683.	4.2	0
14	IEEE Access Special Section Editorial: Data Mining for Internet of Things. IEEE Access, 2021, 9, 90418-90427.	4.2	2
15	Service-enabled systems and applications: current and future trends. Service Oriented Computing and Applications, 2021, 15, 171-173.	1.6	3
16	Toy user interface design—Tools for Child–Computer Interaction. International Journal of Child-Computer Interaction, 2021, 30, 100307.	3.5	7
17	StaResGRU-CNN with CMedLMs: A stacked residual GRU-CNN with pre-trained biomedical language models for predictive intelligence. Applied Soft Computing Journal, 2021, 113, 107975.	7.2	12
18	Systematic privacy impact assessment scheme for smart connected toys data privacy compliance. International Journal of Big Data Intelligence, 2021, 8, 47.	0.4	2

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19	Automatic Fall Risk Detection Based on Imbalanced Data. IEEE Access, 2021, 9, 163594-163611.	4.2	5
20	Assistive Technology for Visually Impairment: Three Research Initiatives. , 2021, , .		0
21	BoR: Toward High-Performance Permissioned Blockchain in RDMA-Enabled Network. IEEE Transactions on Services Computing, 2020, 13, 301-313.	4.6	13
22	Topic-based crossing-workflow fragment discovery. Future Generation Computer Systems, 2020, 112, 1141-1155.	7.5	6
23	Distributed gas concentration prediction with intelligent edge devices in coal mine. Engineering Applications of Artificial Intelligence, 2020, 92, 103643.	8.1	16
24	BPS: A reliable and efficient pub/sub communication model with blockchain-enhanced paradigm in multi-tenant edge cloud. Journal of Parallel and Distributed Computing, 2020, 143, 167-178.	4.1	15
25	A decentralized lightweight blockchain-based authentication mechanism for IoT systems. Cluster Computing, 2020, 23, 2067-2087.	5.0	144
26	ARVMEC: Adaptive Recommendation of Virtual Machines for IoT in Edge–Cloud Environment. Journal of Parallel and Distributed Computing, 2020, 141, 23-34.	4.1	12
27	A Novel Data Placement Strategy for Data-Sharing Scientific Workflows in Heterogeneous Edge-Cloud Computing Environments. , 2020, , .		62
28	DUGRA: Dual-Graph Representation Learning for Health Information Networks. , 2020, , .		2
29	Human-Centered Design Tools for Smart Toys. Lecture Notes in Computer Science, 2020, , 327-343.	1.3	0
30	A Secure Tracing Method in Fog Computing Network for the IoT Devices. , 2020, , .		7
31	ORHRC: Optimized Recommendations of Heterogeneous Resource Configurations in Cloud-Fog Orchestrated Computing Environments. , 2020, , .		5
32	A Prototype of Privacy Identification System for Smart Toy Dialogue Design. , 2020, , .		1
33	Preliminary Tendencies of Users' Expectations about Privacy on Connected-Autonomous Vehicles. , 2020, , .		1
34	A Study of Parental Control Requirements for Smart Toys. , 2020, , .		8
35	Security in Smart Toys: A Systematic Review of Literature. Lecture Notes in Computer Science, 2019, , 28-38.	1.3	7
36	Towards Classifying Motor Imagery Using a Consumer-Grade Brain-Computer Interface. , 2019, , .		1

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37	SARA: Stably and quickly find optimal cloud configurations for heterogeneous big data workloads. Applied Soft Computing Journal, 2019, 85, 105759.	7.2	10
38	A Hybrid Framework for Sentiment Analysis Using Genetic Algorithm Based Feature Reduction. IEEE Access, 2019, 7, 14637-14652.	4.2	97
39	RDMA-driven MongoDB: An approach of RDMA enhanced NoSQL paradigm for large-Scale data processing. Information Sciences, 2019, 502, 376-393.	6.9	13
40	Energy-efficient data routing in cooperative UAV swarms for medical assistance after a disaster. Chaos, 2019, 29, 063106.	2.5	6
41	A Privacy-Preserving Context Ontology (PPCO) for Smart Connected Toys. , 2019, , .		3
42	ZigBee Security Vulnerabilities: Exploration and Evaluating. , 2019, , .		22
43	Bigdata logs analysis based on seq2seq networks for cognitive Internet of Things. Future Generation Computer Systems, 2019, 90, 477-488.	7.5	32
44	QaMeC: A QoS-driven IoVs application optimizing deployment scheme in multimedia edge clouds. Future Generation Computer Systems, 2019, 92, 17-28.	7.5	38
45	Transformation-Based Streaming Workflow Allocation on Geo-Distributed Datacenters for Streaming Big Data Processing. IEEE Transactions on Services Computing, 2019, 12, 654-668.	4.6	12
46	A preliminary study of Hello Barbie in Brazil and Argentina. Sustainable Cities and Society, 2018, 40, 83-90.	10.4	15
47	SERAC3: Smart and economical resource allocation for big data clusters in community clouds. Future Generation Computer Systems, 2018, 85, 210-221.	7.5	12
48	Differentially private multidimensional data publishing. Knowledge and Information Systems, 2018, 56, 717-752.	3.2	8
49	Energy-aware composition for wireless sensor networks as a service. Future Generation Computer Systems, 2018, 80, 299-310.	7.5	47
50	EPLA: efficient personal location anonymity. GeoInformatica, 2018, 22, 29-47.	2.7	5
51	Improving interpretations of topic modeling in microblogs. Journal of the Association for Information Science and Technology, 2018, 69, 528-540.	2.9	11
52	A systematic mapping study of process mining. Enterprise Information Systems, 2018, 12, 505-549.	4.7	33
53	Towards a Music Visualization on Robot (MVR) Prototype. , 2018, , .		3
54	Personalized LSTM Based Matrix Factorization for Online QoS Prediction. , 2018, , .		35

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55	Reflecting on Two Decades of Services Computing. IEEE Internet Computing, 2018, 22, 3-7.	3.3	4
56	A data-driven approach of performance evaluation for cache server groups in content delivery network. Journal of Parallel and Distributed Computing, 2018, 119, 162-171.	4.1	4
57	A glance at research-driven university's technology transfer office in the UAE. International Journal of Technology Management, 2018, 78, 70.	0.5	0
58	A Web Service Discovery Approach Based on Common Topic Groups Extraction. IEEE Access, 2017, 5, 10193-10208.	4.2	28
59	Big Data Analytics and Business Intelligence in Industry. Information Systems Frontiers, 2017, 19, 1229-1232.	6.4	29
60	An Efficient Centroid-Based Routing Protocol for Energy Management in WSN-Assisted IoT. IEEE Access, 2017, 5, 18469-18479.	4.2	162
61	Multi-policy-aware MapReduce resource allocation and scheduling for smart computing cluster. Journal of Systems Architecture, 2017, 80, 17-29.	4.3	12
62	InSTechAH: Cost-effectively autoscaling smart computing hadoop cluster in private cloud. Journal of Systems Architecture, 2017, 80, 1-16.	4.3	14
63	Organized topology based routing protocol in incompletely predictable ad-hoc networks. Computer Communications, 2017, 99, 107-118.	5.1	29
64	SOLAR: Services-oriented Deep Learning Architectures. IEEE Transactions on Services Computing, 2017, , 1-1.	4.6	11
65	Guest Editorial: In Search of a New Alignment in Service Research—Dual-Journal Special Sections. IEEE Transactions on Services Computing, 2017, 10, 839-840.	4.6	0
66	Towards a Privacy Rule Conceptual Model for Smart Toys. , 2017, , .		19
67	Institutional Violence Complaints in Argentina: A Privacy Study. , 2017, , .		2
68	Privacy Requirements for mobile e-Service in the Health Authority - Abu Dhabi (HAAD). , 2016, , .		5
69	Motion tracking for gesture analysis in sports. , 2016, , .		3
70	Introduction—In Search of a New Alignment in Service Research: A Unique Dual-Journal Special Section. Service Science, 2016, 8, v-vi.	1.3	1
71	SOLAR: Services-Oriented Learning Architectures. , 2016, , .		8
72	Improved global motion estimation via motion vector clustering for video stabilization. Engineering Applications of Artificial Intelligence, 2016, 54, 39-48.	8.1	18

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73	Self-regularized causal structure discovery for trajectory-based networks. Journal of Computer and System Sciences, 2016, 82, 594-609.	1.2	9
74	Service Pricing Decision in Cyber-Physical Systems: Insights from Game Theory. IEEE Transactions on Services Computing, 2016, 9, 186-198.	4.6	82
75	Fast Service Process Fragment Indexing and Ranking. IEEE Transactions on Services Computing, 2016, 9, 672-685.	4.6	7
76	EPLA: Efficient Personal Location Anonymity. Lecture Notes in Computer Science, 2016, , 263-275.	1.3	2
77	IEEE Access Special Session Editorial: Big Data Services and Computational Intelligence for Industrial Systems. IEEE Access, 2015, 3, 3085-3088.	4.2	5
78	Estimating trust value: A social network perspective. Information Systems Frontiers, 2015, 17, 1381-1400.	6.4	25
79	Privacy Issues in SOAP Message Exchange Pattern for Social Services. Fundamenta Informaticae, 2015, 137, 253-271.	0.4	0
80	Constructing a Global Social Service Network for Better Quality of Web Service Discovery. IEEE Transactions on Services Computing, 2015, 8, 284-298.	4.6	73
81	SmartMal: A Service-Oriented Behavioral Malware Detection Framework for Mobile Devices. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	2
82	Time-Aware Web Service Recommendations Using Implicit Feedback. , 2014, , .		14
83	A rule-based approach for availability of service by automated service substitution. Software - Practice and Experience, 2014, 44, 47-76.	3.6	7
84	Optimized BS assignment and resource allocation in cooperative OFDM networks. Wireless Networks, 2014, 20, 847-860.	3.0	0
85	Collaborative service system design for music content creation. Information Systems Frontiers, 2014, 16, 291-302.	6.4	10
86	Information and knowledge management in online rich presence services. Information Systems Frontiers, 2013, 15, 521-523.	6.4	4
87	Governance of Cross-Organizational Healthcare Document Exchange through Watermarking Services and Alerts. , 2013, , 274-299.		0
88	Linked Social Service: Connecting Isolated Services into a Global Social Service Network. , 2012, , .		1
89	Adaptive BU association and resource allocation in integrated PONâ€WiMAX networks. Wireless Communications and Mobile Computing, 2012, 12, 1284-1301.	1.2	1
90	Guest Editorial: Special Section on Enforcement and Management in Services Computing. IEEE Transactions on Services Computing, 2012, 5, 147-148.	4.6	0

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91	Enhancing E-Commerce Processes with Alerts for Credit Card Payment. , 2012, , 133-147.		0
92	ISF special issue on emerging social and legal aspects of information systems with Web 2.0. Information Systems Frontiers, 2011, 13, 153-155.	6.4	7
93	Governance of Cross-Organizational Healthcare Document Exchange through Watermarking Services and Alerts. International Journal of Systems and Service-Oriented Engineering, 2011, 2, 83-108.	0.6	1
94	Adaptive BU Association and Resource Allocation in Integrated PON-WiMAX Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 103-120.	0.3	3
95	Gateway to Quality Living for the Elderly: Charting an Innovative Approach to Evidence-Based E-Health Technologies for Serving the Chronically Ill. , 2010, , .		6
96	Engineering e-Collaboration Services with a Multi-Agent System Approach. International Journal of Systems and Service-Oriented Engineering, 2010, 1, 1-25.	0.6	12
97	Towards ubiquitous tourist service coordination and process integration: A collaborative travel agent system architecture with semantic web services. Information Systems Frontiers, 2009, 11, 241-256.	6.4	57
98	Privacy-preserving data publishing for cluster analysis. Data and Knowledge Engineering, 2009, 68, 552-575.	3.4	53
99	Clustering Web Services for Automatic Categorization. , 2009, , .		27
100	Special issue on service intelligence and service science (SISS). Service Oriented Computing and Applications, 2008, 2, 47-49.	1.6	0
101	RLPLA: A Reinforcement Learning Algorithm of Web Service Composition with Preference Consideration. , 2008, , .		10
102	Guest Editorial Foreword to the Special Issue on Enterprise Services Computing and Industrial Applications. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 277-279.	2.9	0
103	A Global Criminal and Terrorist Tracking Framework Using Semantic Grid Technologies. , 2008, , .		2
104	Using TLA for modeling and analysis of Web services composition. , 2008, , .		1
105	Emergency Response Framework for Aviation XML Services on MANET. , 2008, , .		2
106	Developing a Distributed e-Monitoring System for Enterprise Website and Web Services: An Experience Report with Free Libraries and Tools. , 2007, , .		10
107	Privacy Access Control Model with Location Constraints for XML Services. , 2007, , .		4
108	WS-CDL+: An Extended WS-CDL Execution Engine for Web Service Collaboration. , 2007, , .		15

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109	Web Services Security and Privacy. , 2007, , .		2
110	Protecting the Exchange of Medical Images in Healthcare Process Integration with Web Services. , 2007, , .		12
111	Cyber child pornography: A review paper of the social and legal issues and remediesâ€"and a proposed technological solution. Aggression and Violent Behavior, 2007, 12, 45-63.	2.1	40
112	Toward a Service-Oriented Development Through a Case Study. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 955-969.	2.9	24
113	A Virtual Travel Agent System for M-Tourism with Semantic Web Service Based Design and Implementation. International Conference on Advanced Networking and Applications, 2007, , .	0.0	18
114	Privacy Access Control Model for Aggregated e-Health Services. , 2007, , .		9
115	A New Approach to Describe Web Services. , 2007, , .		61
116	e-Tendering with Web Services: A Case Study on the Tendering Process of Building Construction. , 2007, , .		6
117	Implementing a Facial Recognition System with Alerts and Web Services. , 2007, , .		1
118	Web Services Security and Privacy. , 2007, , .		1
119	Research Issues of Privacy Access Control Model for Mobile Ad Hoc Healthcare Applications with XACML. , 2007, , .		1
120	e-Monitoring of Outsourcing IS Project in Financial Institutions: A Case Study on Mandatory Provident Fund Projects in Hong Kong. , 2007, , .		3
121	Towards a Privacy Policy Enforcement Middleware with Location Intelligence. , 2007, , .		4
122	End-to-end privacy control in service outsourcing of human intensive processes: A multi-layered Web service integration approach. Information Systems Frontiers, 2007, 9, 85-101.	6.4	47
123	ISF special issue on enterprise services computing: Evolution and challenges. Information Systems Frontiers, 2007, 9, 135-136.	6.4	1
124	Special issue on enterprise distributed computing model and implementation. Information Systems Frontiers, 2007, 9, 325-326.	6.4	1
125	WS-CDL+ for web service collaboration. Information Systems Frontiers, 2007, 9, 375-389.	6.4	13
126	The International Journal of Information Security Special Issue on privacy, security and trust technologies and E-business services. International Journal of Information Security, 2007, 6, 285-286.	3.4	6

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127	Dynamic Regeneration of Workflow Specification with Access Control Requirements in MANET. , 2006, , .		4
128	Protecting the Exchange of Document Images in Cross-Enterprise Process Integration with Web Services. , 2006, , .		2
129	Developing e-Negotiation support with a meta-modeling approach in a Web services environment. Decision Support Systems, 2005, 40, 51-69.	5.9	48
130	Implementing conflict of interest assertions in WS-policy with separation of duties for Web Services matchmaking process. Information Systems and E-Business Management, 2004, 2, 127.	3.7	0
131	Secure Disconnected Agent Interaction for Electronic Commerce Activities Using CapBasED-AMS. Information Technology and Management, 2002, 3, 329-351.	2.4	2
132	CapBasED-AMS. SIGMOD Record, 1996, 25, 554.	1.2	4
133	Engineering e-Collaboration Services with a Multi-Agent System Approach. , 0, , 1-23.		0
134	Recommendations for a smart toy parental control tool. Journal of Supercomputing, 0, , 1.	3.6	1