

# Patrick C K Hung

## List of Publications by Year in descending order

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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 Efficient Centroid-Based Routing Protocol for Energy Management in WSN-Assisted IoT. IEEE Access, 2017, 5, 18469-18479.	4.2	162
2	A decentralized lightweight blockchain-based authentication mechanism for IoT systems. Cluster Computing, 2020, 23, 2067-2087.	5.0	144
3	A Hybrid Framework for Sentiment Analysis Using Genetic Algorithm Based Feature Reduction. IEEE Access, 2019, 7, 14637-14652.	4.2	97
4	Service Pricing Decision in Cyber-Physical Systems: Insights from Game Theory. IEEE Transactions on Services Computing, 2016, 9, 186-198.	4.6	82
5	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
6	A Novel Data Placement Strategy for Data-Sharing Scientific Workflows in Heterogeneous Edge-Cloud Computing Environments. , 2020, , .		62
7	A New Approach to Describe Web Services. , 2007, , .		61
8	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
9	Privacy-preserving data publishing for cluster analysis. Data and Knowledge Engineering, 2009, 68, 552-575.	3.4	53
10	Developing e-Negotiation support with a meta-modeling approach in a Web services environment. Decision Support Systems, 2005, 40, 51-69.	5.9	48
11	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
12	Energy-aware composition for wireless sensor networks as a service. Future Generation Computer Systems, 2018, 80, 299-310.	7.5	47
13	IoT Microservice Deployment in Edge-Cloud Hybrid Environment Using Reinforcement Learning. IEEE Internet of Things Journal, 2021, 8, 12610-12622.	8.7	47
14	Cyber child pornography: A review paper of the social and legal issues and remedies and a proposed technological solution. Aggression and Violent Behavior, 2007, 12, 45-63.	2.1	40
15	QaMeC: A QoS-driven IoTs application optimizing deployment scheme in multimedia edge clouds. Future Generation Computer Systems, 2019, 92, 17-28.	7.5	38
16	A Survey on Web Service QoS Prediction Methods. IEEE Transactions on Services Computing, 2022, 15, 2439-2454.	4.6	37
17	Personalized LSTM Based Matrix Factorization for Online QoS Prediction. , 2018, , .		35
18	A systematic mapping study of process mining. Enterprise Information Systems, 2018, 12, 505-549.	4.7	33

#	ARTICLE	IF	CITATIONS
19	Bigdata logs analysis based on seq2seq networks for cognitive Internet of Things. Future Generation Computer Systems, 2019, 90, 477-488.	7.5	32
20	Big Data Analytics and Business Intelligence in Industry. Information Systems Frontiers, 2017, 19, 1229-1232.	6.4	29
21	Organized topology based routing protocol in incompletely predictable ad-hoc networks. Computer Communications, 2017, 99, 107-118.	5.1	29
22	A Web Service Discovery Approach Based on Common Topic Groups Extraction. IEEE Access, 2017, 5, 10193-10208.	4.2	28
23	Clustering Web Services for Automatic Categorization. , 2009, , .		27
24	Estimating trust value: A social network perspective. Information Systems Frontiers, 2015, 17, 1381-1400.	6.4	25
25	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
26	EVFL: An explainable vertical federated learning for data-oriented Artificial Intelligence systems. Journal of Systems Architecture, 2022, 126, 102474.	4.3	23
27	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
28	ZigBee Security Vulnerabilities: Exploration and Evaluating. , 2019, , .		22
29	Towards a Privacy Rule Conceptual Model for Smart Toys. , 2017, , .		19
30	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
31	Improved global motion estimation via motion vector clustering for video stabilization. Engineering Applications of Artificial Intelligence, 2016, 54, 39-48.	8.1	18
32	Distributed gas concentration prediction with intelligent edge devices in coal mine. Engineering Applications of Artificial Intelligence, 2020, 92, 103643.	8.1	16
33	WS-CDL+: An Extended WS-CDL Execution Engine for Web Service Collaboration. , 2007, , .		15
34	A preliminary study of Hello Barbie in Brazil and Argentina. Sustainable Cities and Society, 2018, 40, 83-90.	10.4	15
35	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
36	Time-Aware Web Service Recommendations Using Implicit Feedback. , 2014, , .		14

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37	InSTechAH: Cost-effectively autoscaling smart computing hadoop cluster in private cloud. Journal of Systems Architecture, 2017, 80, 1-16.	4.3	14
38	WS-CDL+ for web service collaboration. Information Systems Frontiers, 2007, 9, 375-389.	6.4	13
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	BoR: Toward High-Performance Permissioned Blockchain in RDMA-Enabled Network. IEEE Transactions on Services Computing, 2020, 13, 301-313.	4.6	13
41	Protecting the Exchange of Medical Images in Healthcare Process Integration with Web Services. , 2007, , .		12
42	Multi-policy-aware MapReduce resource allocation and scheduling for smart computing cluster. Journal of Systems Architecture, 2017, 80, 17-29.	4.3	12
43	SERAC3: Smart and economical resource allocation for big data clusters in community clouds. Future Generation Computer Systems, 2018, 85, 210-221.	7.5	12
44	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
45	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
46	Effects of social robots on depressive symptoms in older adults: a scoping review. Library Hi Tech, 2022, 40, 1108-1126.	5.1	12
47	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
48	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
49	SOLAR: Services-oriented Deep Learning Architectures. IEEE Transactions on Services Computing, 2017, , 1-1.	4.6	11
50	Improving interpretations of topic modeling in microblogs. Journal of the Association for Information Science and Technology, 2018, 69, 528-540.	2.9	11
51	Developing a Distributed e-Monitoring System for Enterprise Website and Web Services: An Experience Report with Free Libraries and Tools. , 2007, , .		10
52	RLPLA: A Reinforcement Learning Algorithm of Web Service Composition with Preference Consideration. , 2008, , .		10
53	Collaborative service system design for music content creation. Information Systems Frontiers, 2014, 16, 291-302.	6.4	10
54	SARA: Stably and quickly find optimal cloud configurations for heterogeneous big data workloads. Applied Soft Computing Journal, 2019, 85, 105759.	7.2	10

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55	Privacy Access Control Model for Aggregated e-Health Services. , 2007, , .		9
56	Self-regularized causal structure discovery for trajectory-based networks. Journal of Computer and System Sciences, 2016, 82, 594-609.	1.2	9
57	SOLAR: Services-Oriented Learning Architectures. , 2016, , .		8
58	Differentially private multidimensional data publishing. Knowledge and Information Systems, 2018, 56, 717-752.	3.2	8
59	A Study of Parental Control Requirements for Smart Toys. , 2020, , .		8
60	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
61	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
62	A rule-based approach for availability of service by automated service substitution. Software - Practice and Experience, 2014, 44, 47-76.	3.6	7
63	Fast Service Process Fragment Indexing and Ranking. IEEE Transactions on Services Computing, 2016, 9, 672-685.	4.6	7
64	Security in Smart Toys: A Systematic Review of Literature. Lecture Notes in Computer Science, 2019, , 28-38.	1.3	7
65	Toy user interface designâ€”Tools for Childâ€”Computer Interaction. International Journal of Child-Computer Interaction, 2021, 30, 100307.	3.5	7
66	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
67	A Secure Tracing Method in Fog Computing Network for the IoT Devices. , 2020, , .		7
68	e-Tendering with Web Services: A Case Study on the Tendering Process of Building Construction. , 2007, , .		6
69	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
70	Gateway to Quality Living for the Elderly: Charting an Innovative Approach to Evidence-Based E-Health Technologies for Serving the Chronically Ill. , 2010, , .		6
71	Energy-efficient data routing in cooperative UAV swarms for medical assistance after a disaster. Chaos, 2019, 29, 063106.	2.5	6
72	Topic-based crossing-workflow fragment discovery. Future Generation Computer Systems, 2020, 112, 1141-1155.	7.5	6

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73	IEEE Access Special Session Editorial: Big Data Services and Computational Intelligence for Industrial Systems. IEEE Access, 2015, 3, 3085-3088.	4.2	5
74	Privacy Requirements for mobile e-Service in the Health Authority - Abu Dhabi (HAAD). , 2016, , .		5
75	EPLA: efficient personal location anonymity. Geoinformatica, 2018, 22, 29-47.	2.7	5
76	Automatic Fall Risk Detection Based on Imbalanced Data. IEEE Access, 2021, 9, 163594-163611.	4.2	5
77	ORHRC: Optimized Recommendations of Heterogeneous Resource Configurations in Cloud-Fog Orchestrated Computing Environments. , 2020, , .		5
78	CapBasED-AMS. SIGMOD Record, 1996, 25, 554.	1.2	4
79	Dynamic Regeneration of Workflow Specification with Access Control Requirements in MANET. , 2006, , .		4
80	Privacy Access Control Model with Location Constraints for XML Services. , 2007, , .		4
81	Towards a Privacy Policy Enforcement Middleware with Location Intelligence. , 2007, , .		4
82	Information and knowledge management in online rich presence services. Information Systems Frontiers, 2013, 15, 521-523.	6.4	4
83	Reflecting on Two Decades of Services Computing. IEEE Internet Computing, 2018, 22, 3-7.	3.3	4
84	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
85	CTL-Based Adaptive Service Composition in Edge Networks. IEEE Transactions on Services Computing, 2023, 16, 1051-1065.	4.6	4
86	e-Monitoring of Outsourcing IS Project in Financial Institutions: A Case Study on Mandatory Provident Fund Projects in Hong Kong. , 2007, , .		3
87	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
88	Motion tracking for gesture analysis in sports. , 2016, , .		3
89	Towards a Music Visualization on Robot (MVR) Prototype. , 2018, , .		3
90	A Privacy-Preserving Context Ontology (PPCO) for Smart Connected Toys. , 2019, , .		3

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91	Service-enabled systems and applications: current and future trends. Service Oriented Computing and Applications, 2021, 15, 171-173.	1.6	3
92	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
93	Secure Disconnected Agent Interaction for Electronic Commerce Activities Using CapBasED-AMS. Information Technology and Management, 2002, 3, 329-351.	2.4	2
94	Protecting the Exchange of Document Images in Cross-Enterprise Process Integration with Web Services. , 2006, , .		2
95	Web Services Security and Privacy. , 2007, , .		2
96	A Global Criminal and Terrorist Tracking Framework Using Semantic Grid Technologies. , 2008, , .		2
97	Emergency Response Framework for Aviation XML Services on MANET. , 2008, , .		2
98	SmartMal: A Service-Oriented Behavioral Malware Detection Framework for Mobile Devices. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	2
99	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
100	IEEE Access Special Section Editorial: Data Mining for Internet of Things. IEEE Access, 2021, 9, 90418-90427.	4.2	2
101	EPLA: Efficient Personal Location Anonymity. Lecture Notes in Computer Science, 2016, , 263-275.	1.3	2
102	Institutional Violence Complaints in Argentina: A Privacy Study. , 2017, , .		2
103	DUGRA: Dual-Graph Representation Learning for Health Information Networks. , 2020, , .		2
104	Systematic privacy impact assessment scheme for smart connected toys data privacy compliance. International Journal of Big Data Intelligence, 2021, 8, 47.	0.4	2
105	Implementing a Facial Recognition System with Alerts and Web Services. , 2007, , .		1
106	Web Services Security and Privacy. , 2007, , .		1
107	Research Issues of Privacy Access Control Model for Mobile Ad Hoc Healthcare Applications with XACML. , 2007, , .		1
108	ISF special issue on enterprise services computing: Evolution and challenges. Information Systems Frontiers, 2007, 9, 135-136.	6.4	1

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109	Special issue on enterprise distributed computing model and implementation. Information Systems Frontiers, 2007, 9, 325-326.	6.4	1
110	Using TLA for modeling and analysis of Web services composition. , 2008, , .		1
111	Linked Social Service: Connecting Isolated Services into a Global Social Service Network. , 2012, , .		1
112	Adaptive BU association and resource allocation in integrated PONâ€WIMAX networks. Wireless Communications and Mobile Computing, 2012, 12, 1284-1301.	1.2	1
113	Introductionâ€”In Search of a New Alignment in Service Research: A Unique Dual-Journal Special Section. Service Science, 2016, 8, v-vi.	1.3	1
114	Towards Classifying Motor Imagery Using a Consumer-Grade Brain-Computer Interface. , 2019, , .		1
115	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
116	A Prototype of Privacy Identification System for Smart Toy Dialogue Design. , 2020, , .		1
117	Preliminary Tendencies of Usersâ€™ Expectations about Privacy on Connected-Autonomous Vehicles. , 2020, , .		1
118	Recommendations for a smart toy parental control tool. Journal of Supercomputing, 0, , 1.	3.6	1
119	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
120	Special issue on service intelligence and service science (SISS). Service Oriented Computing and Applications, 2008, 2, 47-49.	1.6	0
121	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
122	Guest Editorial: Special Section on Enforcement and Management in Services Computing. IEEE Transactions on Services Computing, 2012, 5, 147-148.	4.6	0
123	Optimized BS assignment and resource allocation in cooperative OFDM networks. Wireless Networks, 2014, 20, 847-860.	3.0	0
124	Privacy Issues in SOAP Message Exchange Pattern for Social Services. Fundamenta Informaticae, 2015, 137, 253-271.	0.4	0
125	Guest Editorial: In Search of a New Alignment in Service Researchâ€”Dual-Journal Special Sections. IEEE Transactions on Services Computing, 2017, 10, 839-840.	4.6	0
126	Service Configuration Optimization in Edgeâ€”Cloud Networks Leveraging Log Analysis. IEEE Internet of Things Journal, 2022, 9, 6719-6731.	8.7	0



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127	IEEE Access Special Section Editorial: Blockchain-Enabled Trustworthy Systems. IEEE Access, 2021, 9, 67680-67683.	4.2	0
128	Enhancing E-Commerce Processes with Alerts for Credit Card Payment. , 2012, , 133-147.		0
129	Governance of Cross-Organizational Healthcare Document Exchange through Watermarking Services and Alerts. , 2013, , 274-299.		0
130	A glance at research-driven university's technology transfer office in the UAE. International Journal of Technology Management, 2018, 78, 70.	0.5	0
131	Human-Centered Design Tools for Smart Toys. Lecture Notes in Computer Science, 2020, , 327-343.	1.3	0
132	Engineering e-Collaboration Services with a Multi-Agent System Approach. , 0, , 1-23.		0
133	Assistive Technology for Visually Impairment: Three Research Initiatives. , 2021, , .		0
134	A new model for trustworthy web service <scp>QoS</scp> prediction. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	0