Paul W H Chung

List of Publications by Year
in descending order

94 papers	1,132 citations	516710 16 h-index	477307 29 g-index
96 all docs	96 docs citations	96 times ranked	894 citing authors

#	ARTICLE	IF	CITATIONS
1	A Heuristic Distributed Task Allocation Method for Multivehicle Multitask Problems and Its Application to Search and Rescue Scenario. IEEE Transactions on Cybernetics, 2016, 46, 902-915.	9.5	153
2	Knowledge-based process management—an approach to handling adaptive workflow. Knowledge-Based Systems, 2003, 16, 149-160.	7.1	71
3	Reliable, Distributed Scheduling and Rescheduling for Time-Critical, Multiagent Systems. IEEE Transactions on Automation Science and Engineering, 2018, 15, 732-747.	5.2	52
4	An efficient phased mission reliability analysis for autonomous vehicles. Reliability Engineering and System Safety, 2010, 95, 226-235.	8.9	46
5	Addressing robustness in time-critical, distributed, task allocation algorithms. Applied Intelligence, 2019, 49, 1-15.	5.3	39
6	HAZID, A Computer Aid for Hazard Identification. Chemical Engineering Research and Design, 1999, 77, 317-327.	5.6	37
7	How Good are Distributed Allocation Algorithms for Solving Urban Search and Rescue Problems? A Comparative Study With Centralized Algorithms. IEEE Transactions on Automation Science and Engineering, 2019, 16, 478-485.	5.2	37
8	Incorporating domain-specific knowledge into a genetic algorithm to implement case-based reasoning adaptation. Knowledge-Based Systems, 2006, 19, 192-201.	7.1	34
9	A systematic Hazop procedure for batch processes, and its application to pipeless plants. Journal of Loss Prevention in the Process Industries, 2000, 13, 41-48.	3.3	31
10	Compliance Flow – Managing the compliance of dynamic and complex processes. Knowledge-Based Systems, 2008, 21, 332-354.	7.1	25
11	More Effective Permit-to-Work Systems. Chemical Engineering Research and Design, 1999, 77, 69-76.	5.6	23
12	A novel distributed scheduling algorithm for time-critical multi-agent systems. , 2015, , .		22
13	Integrating routing and scheduling for pipeless plants in different layouts. Computers and Chemical Engineering, 2005, 29, 1069-1081.	3.8	21
14	A Fuzzy Approach to Accessing Accident Databases. Applied Intelligence, 1998, 9, 129-137.	5.3	20
15	Robots learn to dance through interaction with humans. Neural Computing and Applications, 2014, 24, 117-124.	5.6	19
16	An automated system for batch hazard and operability studies. Reliability Engineering and System Safety, 2009, 94, 1095-1106.	8.9	18
17	The integration of accident databases with computer tools in the chemical industry. Computers and Chemical Engineering, 1998, 22, S729-S732.	3.8	17
18	The application of active databases to the problems of human error in industry. Journal of Loss Prevention in the Process Industries, 2000, 13, 19-26.	3.3	16

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19	Creating Signed Directed Graph Models for Process Plants. Industrial & Engineering Chemistry Research, 2000, 39, 2548-2558.	3.7	16
20	Automatic safety analysis of computer-controlled plants. Computers and Chemical Engineering, 2001, 25, 913-922.	3.8	16
21	Scheduling of pipeless batch plants using constraint satisfaction techniques. Computers and Chemical Engineering, 2000, 24, 377-383.	3.8	15
22	Hazid, A Computer Aid for Hazard Identification. Chemical Engineering Research and Design, 2000, 78, 91-119.	5.6	15
23	The effect of a computer-based cartooning tool on children's cartoons and written stories. Computers and Education, 2008, 51, 900-925.	8.3	14
24	Hazard Identification in Batch and Continuous Computer-Controlled Plants. Industrial & Engineering Chemistry Research, 1999, 38, 4359-4371.	3.7	13
25	Operating procedure synthesis: science or art. Knowledge Engineering Review, 2002, 17, 261-294.	2.6	13
26	State-based modelling in hazard identification. Applied Intelligence, 2006, 24, 263-279.	5.3	13
27	An integrated approach to representing and accessing design rationale. Engineering Applications of Artificial Intelligence, 1998, 11, 149-159.	8.1	12
28	Cartoons beyond clipart: A computer tool for storyboarding and storywriting. Computers and Education, 2009, 52, 188-200.	8.3	12
29	Safety assessment and the software requirements specification. Reliability Engineering and System Safety, 1997, 55, 295-309.	8.9	11
30	Hazard analysis and support tool for computer controlled processes. Journal of Loss Prevention in the Process Industries, 1998, 11, 333-345.	3.3	11
31	A 'computer tutor' to assist children develop their narrative writing skills: conferencing with HARRY. International Journal of Human Computer Studies, 2003, 59, 631-669.	5.6	11
32	Use of Neural Networks in Automatic Caricature Generation: An Approach Based on Drawing Style Capture. Lecture Notes in Computer Science, 2005, , 343-351.	1.3	11
33	An Integrated Framework for Representing Design History. Applied Intelligence, 1997, 7, 167-181.	5.3	10
34	Conceptual design of pressure relief systems. Journal of Loss Prevention in the Process Industries, 2000, 13, 519-526.	3.3	10
35	Multi-Stage Modelling of a Semi-Batch Polymerization Reactor Using Artificial Neural Networks. Chemical Engineering Research and Design, 1999, 77, 779-783.	5.6	9
36	HAZID, A Computer Aid for Hazard Identification. Chemical Engineering Research and Design, 1999, 77, 328-334.	5.6	9

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37	HAZID, A Computer Aid for Hazard Identification. Chemical Engineering Research and Design, 1999, 77, 335-353.	5.6	9
38	AI planning: solutions for real world problems. Knowledge-Based Systems, 2000, 13, 61-69.	7.1	9
39	Planning plant operating procedures for chemical plant. Engineering Applications of Artificial Intelligence, 2001, 14, 341-356.	8.1	9
40	Landmark-Based Methods for Temporal Alignment of Human Motions. IEEE Computational Intelligence Magazine, 2014, 9, 29-37.	3.2	9
41	Off-line scheduling a simple chemical batch process production plan using the ILOG scheduler. Computers and Chemical Engineering, 1998, 22, S947-S950.	3.8	8
42	Safety related questions for computer-controlled plants: derivation, organisation and application. Journal of Loss Prevention in the Process Industries, 1998, 11, 397-406.	3.3	8
43	Improving children's written grammar and style: revising and editing with HARRY. Computers and Education, 2004, 42, 1-23.	8.3	8
44	A computer tool for batch hazard and operability studies. Journal of Loss Prevention in the Process Industries, 2008, 21, 537-542.	3.3	7
45	Mimicking player strategies in fighting games. , 2011, , .		7
46	Life cycle hazard analysis for computer controlled processes. Computers and Chemical Engineering, 1998, 22, S483-S490.	3.8	6
47	Multi-objective constraint control for FCC reactor-regenerator system. Computers and Chemical Engineering, 1998, 22, S831-S834.	3.8	6
48	Hazid, a Computer Aid for Hazard Identification. Chemical Engineering Research and Design, 2000, 78, 120-142.	5.6	6
49	Assessing aspects of children's written grammar: automating the process. Computers and Education, 2002, 39, 37-50.	8.3	6
50	Interaction protocols for cross-organisational workflows. Knowledge-Based Systems, 2013, 37, 121-136.	7.1	6
51	Handling Uncertainty in Accessing Petroleum Exploration Data. Oil & Gas Science & Technology, 1992, 47, 305-314.	0.2	6
52	Combining and adapting process patterns for flexible workflow. , 0, , .		5
53	Approaches to representing and reasoning with technical regulatory information. Knowledge Engineering Review, 1994, 9, 147-162.	2.6	5
54	Capturing and using design rationale. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1997, 11, 89-91.	1.1	5

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55	Eliminating ambiguities in qualitative causal feedback. Computers and Chemical Engineering, 1998, 22, S843-S846.	3.8	5
56	Verifying signed directed graph models for process plants. Computers and Chemical Engineering, 1999, 23, S391-S394.	3.8	5
57	Scheduling of multistage multiproduct chemical batch plants using a constraint-based approach. Computers and Chemical Engineering, 1999, 23, S511-S514.	3.8	5
58	A cross organisation compatible workflows generation and execution framework. Knowledge-Based Systems, 2014, 56, 1-14.	7.1	5
59	A Robust, Distributed Task Allocation Algorithm for Time-Critical, Multi Agent Systems Operating in Uncertain Environments. Lecture Notes in Computer Science, 2017, , 55-64.	1.3	5
60	Safety Analysis of Process Plant Control Systems Based on Model Checking. Safety and Reliability, 2002, 23, 19-34.	0.6	4
61	In What Ways are Designers' and Operators' Reasonable-World Assumptions Not Reasonable Assumptions?. Chemical Engineering Research and Design, 2003, 81, 114-120.	5.6	4
62	Cross-Organisation Dataspace (COD) - Architecture and Implementation. , 2008, , .		4
63	Eyes extraction from facial images using edge density. , 2008, , .		4
64	Facilitating B2B E-business by IT-supported business process negotiation services. , 2008, , .		4
65	Effectiveness of a case-based system in lesson planning. Journal of Computer Assisted Learning, 2014, 30, 408-424.	5.1	4
66	An integrated communications platform incorporating SMS and e-mail to support mobile applications. International Journal of High Performance Computing and Networking, 2015, 8, 3.	0.4	4
67	Planning and chemical plant operating procedure synthesis: A case study. Lecture Notes in Computer Science, 1997, , 39-51.	1.3	3
68	Neural network based estimation of a semi-batch polymerisation reactor. Computers and Chemical Engineering, 1999, 23, S443-S446.	3.8	3
69	Intelligent Modelling Interface for Dynamic Process Simulators. Chemical Engineering Research and Design, 2000, 78, 823-839.	5.6	3
70	A constraint approach for rescheduling batch processing plants including pipeless plants. Computer Aided Chemical Engineering, 2003, 14, 161-166.	0.5	3
71	Hazards in advising autonomy: A structured approach seeking novelty in developing the requirements for an exemplar. , 2010, , .		3
72	Hazards in advising autonomy: Developing requirements for a hazard modelling methodology incorporating system dynamics. , 2011, , .		3

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73	Process plant safety information repository and support for safety applications. Journal of Loss Prevention in the Process Industries, 2012, 25, 788-796.	3.3	3
74	Cross-Organisational Workflow Enactment Via Progressive Linking by Run-Time Agents. Lecture Notes in Computer Science, 2006, , 54-59.	1.3	3
75	Case-Based Reasoning for Estuarine Model Design. Lecture Notes in Computer Science, 2002, , 590-603.	1.3	3
76	Intelligent Business Transaction Agents for Cross-Organizational Workflow Definition and Execution. International Federation for Information Processing, 2010, , 245-250.	0.4	3
77	The architecture of a web service-based remote control service system. , 2008, , .		3
78	Concurrent engineering system for supporting STEP based activity model. Computers and Chemical Engineering, 1998, 22, S781-S784.	3.8	2
79	Towards a learning framework for dancing robots. , 2009, , .		2
80	Computer-aided identification of isolation boundary for safe maintenance and cause and effect analysis for assessing safeguards. International Journal of Process Systems Engineering, 2009, 1, 29.	0.2	2
81	How a process simulator and a rule-based system contribute to virtual reality applications for process safety. Computer Aided Chemical Engineering, 2009, , 435-439.	0.5	2
82	A Machine Learning Method for Identification of Key Body Poses in Cyclic Physical Exercises. , 2013, , .		2
83	VR, HF and Rule-Based Technologies Applied and Combined for Improving Industrial Safety. Lecture Notes in Computer Science, 2007, , 676-680.	1.3	2
84	Robot Dancing: What Makes a Dance?. Advanced Materials Research, 0, 403-408, 4901-4909.	0.3	1
85	Cross Organisational Compatible Plans Generation Framework. , 2011, , 223-228.		1
86	3D Simulation of Navigation Problem of People with Cerebral Visual Impairment. Advances in Intelligent Systems and Computing, 2018, , 265-275.	0.6	1
87	Robot Dancing: Adapting Robot Dance to Human Preferences. Lecture Notes in Computer Science, 2012, , 557-565.	1.3	1
88	Clever computers. Why should engineers use AI?. IEE Review, 1990, 36, 189.	0.2	1
89	Automated reasoning about an uncertain domain. Lecture Notes in Computer Science, 1991, , 141-145.	1.3	1
90	What every engineer should know about artificial intelligence by William A Taylor, MIT Press, 1988, pp 331, Â£19.95.. Knowledge Engineering Review, 1989, 4, 173-174.	2.6	0

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91	A Decision Support Tool for the Conceptual Design of De-oiling Systems. Lecture Notes in Computer Science, 2000, , 334-344.	1.3	0
92	Hazards in advising autonomy: Inferring hazard causes in UAS dynamics. , 2012, , .		0
93	A hybrid reasoning system for supporting estuary modelling. Journal of Hydroinformatics, 2005, 7, 185-198.	2.4	0
94	Table tennis and computer vision: a monocular event classifier. Advances in Intelligent Systems and Computing, 2016, , 29-32.	0.6	0