Ying Liu

List of Publications by Year in descending order

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108 papers	2,740 citations	172457 29 h-index	197818 49 g-index
111 all docs	111 docs citations	111 times ranked	2101 citing authors

#	Article	IF	Citations
1	On strategies for imbalanced text classification using SVM: A comparative study. Decision Support Systems, 2009, 48, 191-201.	5.9	202
2	Imbalanced text classification: A term weighting approach. Expert Systems With Applications, 2009, 36, 690-701.	7.6	182
3	Gather customer concerns from online product reviews â€“ A text summarization approach. Expert Systems With Applications, 2009, 36, 2107-2115.	7.6	161
4	An enhanced adaptive CUSUM control chart. IIE Transactions, 2009, 41, 642-653.	2.1	149
5	Identifying helpful online reviews: A product designerâ€™s perspective. CAD Computer Aided Design, 2013, 45, 180-194.	2.7	133
6	Understanding big consumer opinion data for market-driven product design. International Journal of Production Research, 2016, 54, 3019-3041.	7.5	129
7	Exploiting user experience from online customer reviews for product design. International Journal of Information Management, 2019, 46, 173-186.	17.5	115
8	Cloud-based big data analytics for customer insight-driven design innovation in SMEs. International Journal of Information Management, 2020, 51, 102034.	17.5	80
9	Data-driven ecological performance evaluation for remanufacturing process. Energy Conversion and Management, 2019, 198, 111844.	9.2	77
10	Engineering design using game-enhanced CAD: The potential to augment the user experience with game elements. CAD Computer Aided Design, 2013, 45, 777-795.	2.7	74
11	Reinforcement learning for facilitating human-robot-interaction in manufacturing. Journal of Manufacturing Systems, 2020, 56, 326-340.	13.9	66
12	Translating online customer opinions into engineering characteristics in QFD: A probabilistic language analysis approach. Engineering Applications of Artificial Intelligence, 2015, 41, 115-127.	8.1	65
13	Searching in Cooperative Patent Classification: Comparison between keyword and concept-based search. Advanced Engineering Informatics, 2013, 27, 335-345.	8.0	64
14	Review on Recent Advances in Information Mining From Big Consumer Opinion Data for Product Design. Journal of Computing and Information Science in Engineering, 2019, 19, .	2.7	64
15	Therblig-embedded value stream mapping method for lean energy machining. Energy, 2017, 138, 1081-1098.	8.8	61
16	Quasi-static analysis of mechanical properties of Ti6Al4V lattice structures manufactured using selective laser melting. International Journal of Advanced Manufacturing Technology, 2018, 94, 2301-2313.	3.0	61
17	A methodology for building a semantically annotated multi-faceted ontology for product family modelling. Advanced Engineering Informatics, 2011, 25, 147-161.	8.0	59
18	Energy consumption modelling using deep learning embedded semi-supervised learning. Computers and Industrial Engineering, 2019, 135, 757-765.	6.3	51

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19	Learning the â€œWhysâ€• Discovering design rationale using text mining â€” An algorithm perspective. CAD Computer Aided Design, 2012, 44, 916-930.	2.7	48
20	Workflow simulation for operational decision support using event graph through process mining. Decision Support Systems, 2012, 52, 685-697.	5.9	48
21	Multi-facet product information search and retrieval using semantically annotated product family ontology. Information Processing and Management, 2010, 46, 479-493.	8.6	47
22	A methodology of integrating affective design with defining engineering specifications for product design. International Journal of Production Research, 2015, 53, 2472-2488.	7.5	45
23	Prioritising engineering characteristics based on customer online reviews for quality function deployment. Journal of Engineering Design, 2014, 25, 303-324.	2.3	39
24	Supporting resilient conceptual design using functional decomposition and conflict resolution. Advanced Engineering Informatics, 2021, 48, 101262.	8.0	38
25	An investigation of the mechanical properties of metallic lattice structures fabricated using selective laser melting. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1719-1730.	2.4	36
26	Deep learning-driven particle swarm optimisation for additive manufacturing energy optimisation. Journal of Cleaner Production, 2020, 245, 118702.	9.3	36
27	Energy Consumption Modelling Using Deep Learning Technique â€” A Case Study of EAF. Procedia CIRP, 2018, 72, 1063-1068.	1.9	34
28	Multi-source data analytics for AM energy consumption prediction. Advanced Engineering Informatics, 2018, 38, 840-850.	8.0	32
29	An integrated decision-making method for selecting machine tool guideways considering remanufacturability. International Journal of Computer Integrated Manufacturing, 2020, 33, 686-700.	4.6	32
30	A New Design Rationale Representation Model for Rationale Mining. Journal of Computing and Information Science in Engineering, 2010, 10, .	2.7	31
31	A binomial CUSUM chart for detecting large shifts in fraction nonconforming. Journal of Applied Statistics, 2008, 35, 1267-1276.	1.3	28
32	A smart knowledge deployment method for the conceptual design of low-carbon products. Journal of Cleaner Production, 2021, 321, 128994.	9.3	27
33	Product Family Design Through Ontology-Based Faceted Component Analysis, Selection, and Optimization. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	25
34	The role of cultural diversity and leadership in computer-supported collaborative learning: a content analysis. Information and Software Technology, 2006, 48, 142-153.	4.4	24
35	Functional-Based Search for Patent Technology Transfer. , 2012, , .		15
36	Editorial for the special issue of decision support for sustainable design and manufacturing. Journal of Industrial and Production Engineering, 2015, 32, 1-2.	3.1	14

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37	How to interpret the helpfulness of online product reviews. , 2010, , .		13
38	Integrating Topic, Sentiment, and Syntax for Modeling Online Reviews: A Topic Model Approach. Journal of Computing and Information Science in Engineering, 2019, 19, .	2.7	13
39	Faceted search and retrieval based on semantically annotated product family ontology. , 2009, , .		12
40	Extracting topic-sensitive content from textual documentsâ€"A hybrid topic model approach. Engineering Applications of Artificial Intelligence, 2018, 70, 81-91.	8.1	12
41	Industrial Internet of Learning (IIoL): IIoT based pervasive knowledge network for LPWANâ€"concept, framework and case studies. CCF Transactions on Pervasive Computing and Interaction, 2021, 3, 25-39.	2.6	12
42	Deep Fusion for Energy Consumption Prediction in Additive Manufacturing. Procedia CIRP, 2021, 104, 1878-1883.	1.9	12
43	Advances in intelligent grid and cloud computing. Information Systems Frontiers, 2012, 14, 823-825.	6.4	11
44	False positive reduction in urinary particle recognition. Expert Systems With Applications, 2009, 36, 11429-11438.	7.6	10
45	Web classification of conceptual entities using co-training. Expert Systems With Applications, 2011, 38, 14367-14375.	7.6	10
46	An approach for design rationale retrieval using ontology-aided indexing. Journal of Engineering Design, 2014, 25, 259-279.	2.3	10
47	Product characteristic weighting for designer from online reviews. , 2012, , .		9
48	PubMed-supported clinical term weighting approach for improving inter-patient similarity measure in diagnosis prediction. BMC Medical Informatics and Decision Making, 2015, 15, 43.	3.0	9
49	A formal functional representation methodology for conceptual design of material-flow processing devices. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 353-366.	1.1	9
50	Multi-faceted modelling for strip breakage in cold rolling using machine learning. International Journal of Production Research, 2021, 59, 6347-6360.	7.5	9
51	Deriving Taxonomy from Documents at Sentence Level. , 2008, , 99-119.		9
52	Regional-based strategies for municipality carbon mitigation: A case study of Chongqing in China. Energy Reports, 2022, 8, 4672-4694.	5.1	9
53	Improving Human-Robot Interaction Utilizing Learning and Intelligence: A Human Factors-Based Approach. IEEE Transactions on Automation Science and Engineering, 2020, , 1-14.	5.2	8
54	On Document Representation and Term Weights in Text Classification. , 2009, , 1-22.		8

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55	Characterizing Strip Snap in Cold Rolling Process Using Advanced Data Analytics. Procedia CIRP, 2019, 81, 453-458.	1.9	7
56	Analysis the Drivers of Environmental Responsibility of Chinese Auto Manufacturing Industry Based on Triple Bottom Line. Processes, 2021, 9, 751.	2.8	7
57	Handling of Imbalanced Data in Text Classification: Category-Based Term Weights. , 2007, , 171-192.		7
58	Multi-Indicators Decision for Product Design Solutions: A TOPSIS-MOGA Integrated Model. Processes, 2022, 10, 303.	2.8	6
59	A design rationale representation model using patent documents. , 2009, , .		5
60	On macro- and micro-level information in multiple documents and its influence on summarization. International Journal of Information Management, 2009, 29, 57-66.	17.5	5
61	Interactive Interface Design for Design Rationale Search and Retrieval. , 2010, , .		5
62	An Exploratory Study of Ontology-Based Platform Analysis Under User Preference Uncertainty. , 2012, , .		5
63	An Investigation into the Quasi-Static Response of Ti6Al4V Lattice Structures Manufactured Using Selective Laser Melting. Smart Innovation, Systems and Technologies, 2016, , 399-409.	0.6	5
64	Automatic Discovery of Design Task Structure Using Deep Belief Nets. Journal of Computing and Information Science in Engineering, 2017, 17, .	2.7	5
65	Learning From the Past: Uncovering Design Process Models Using an Enriched Process Mining. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	5
66	A Multi-source Feature-level Fusion Approach for Predicting Strip Breakage in Cold Rolling. , 2020, , .		5
67	Research on Blank Optimization Design Based on Low-Carbon and Low-Cost Blank Process Route Optimization Model. Sustainability, 2021, 13, 1929.	3.2	5
68	Conceptual Design for Innovation: Process and a Knowledge-Based Approach. Management and Industrial Engineering, 2022, , 179-198.	0.4	5
69	A hierarchical text classification system for manufacturing knowledge management and retrieval. International Journal of Knowledge Management Studies, 2008, 2, 406.	0.3	4
70	Product Analysis and Variants Derivation Based on a Semantically Annotated Product Family Ontology. , 2009, , .		4
71	A framework for concept validation in product design using digital prototyping. Journal of Industrial and Production Engineering, 2014, 31, 286-302.	3.1	4
72	An Evaluation Methodology for Design Concept Communication Using Digital Prototypes. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	4

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73	A Data-Driven Approach for Integrating Hedonic Quality and Pragmatic Quality in User Experience Modeling. Journal of Computing and Information Science in Engineering, 2022, 22, .	2.7	4
74	A New Method of Predicting the Energy Consumption of Additive Manufacturing considering the Component Working State. Sustainability, 2022, 14, 3757.	3.2	4
75	Editorial for the special issue of knowledge discovery and management in biomedical information systems. Information Systems Frontiers, 2009, 11, 345-347.	6.4	3
76	Editorial for the special issue of knowledge discovery and management in engineering design and manufacturing. Journal of Intelligent Manufacturing, 2009, 20, 499-500.	7.3	3
77	Discovering contextual tags from product review using semantic relatedness. Journal of Industrial and Production Engineering, 2014, 31, 108-118.	3.1	3
78	Discovering a Hierarchical Design Process Model Using Text Mining. , 2016, , .		3
79	Corpus Building for Corporate Knowledge Discovery and Management: A Case Study of Manufacturing. , 2007, , 542-550.		3
80	DICOM-Based Multidisciplinary Platform for Clinical Decision Support: Needs and Direction. Studies in Computational Intelligence, 2008, , 191-212.	0.9	3
81	Adaptive Genetic Algorithm Based on Fuzzy Reasoning for the Multilevel Capacitated Lot-Sizing Problem with Energy Consumption in Synchronizer Production. Sustainability, 2022, 14, 5072.	3.2	3
82	Using semantic annotation for ontology based decision support in product family design. , 2009, , .		2
83	What makes categories difficult to classify?. , 2009, , .		2
84	Automating object-oriented integration and visualization of multidisciplinary biomedical data in radiology workflow: Compartmental PACS model. Information Systems Frontiers, 2009, 11, 369-379.	6.4	2
85	Developing Customer Preferences for Concept Generation by Using Engineering Ontologies. , 2010, , .		2
86	Multidocument Summarization of Engineering Papers Based on Macro- and Microstructure. Journal of Computing and Information Science in Engineering, 2011, 11, .	2.7	2
87	Editorial for the special issue of information mining and retrieval in design. Advanced Engineering Informatics, 2011, 25, 117-118.	8.0	2
88	Engineering design informatics. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 335-336.	1.1	2
89	Enhanced SPARQL-based design rationale retrieval. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 406-423.	1.1	2
90	From Faceted Classification to Knowledge Discovery of Semi-structured Text Records. Studies in Computational Intelligence, 2009, , 151-169.	0.9	2

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91	Multi-sourced Modelling for Strip Breakage using Knowledge Graph Embeddings. Procedia CIRP, 2021, 104, 1884-1889.	1.9	2
92	Automatic Identification of Bottleneck Tasks for Business Process Management using Fusion-based Text Clustering. IFAC-PapersOnLine, 2021, 54, 1200-1205.	0.9	2
93	Establishing Product Appearance Specifications with the Identification of User Aesthetic Needs in Product Conceptual Design. Management and Industrial Engineering, 2022, , 199-217.	0.4	2
94	Opinion comparison between internet forums and customer reviews. International Journal of Computer Applications in Technology, 2011, 40, 107.	0.5	1
95	Rationale-Based Patent Analysis for Corporate Product Design. , 2013, , .		1
96	Designing a Fast Adaptive Clustering Approach for Traffic Wave Simulation. , 2015, , .		1
97	Editorial for the Special Issue of Sustainable Design and Manufacturing for Circular Economy. Journal of Industrial and Production Engineering, 2016, 33, 295-296.	3.1	1
98	User Interface Design for Interactive Product Family Analysis and Variants Derivation. , 2010, , .		0
99	Designing graphical interfaces for design rationale search & retrieval. , 2010, , .		0
100	Domain concept handling in automated text categorization. , 2010, , .		0
101	A Platform Selection Approach Based on Product Family Ontology Modeling. , 2011, , .		0
102	Design Preference Centered Review Recommendation: A Similarity Learning Approach. , 2011, , .		0
103	A New Discrete Event System Model for Supervising and Controlling Robotic Arm Path Tacking Tasks Based on Adaptive Masking. , 2012, , .		0
104	Editorial for the special issue of service computing and service oriented enterprise systems in design, manufacturing and supply chain. Journal of Intelligent Manufacturing, 2012, 23, 1327-1329.	7.3	0
105	Voice of the Customer Oriented New Product Synthesis Over Knowledge Graphs. , 2018, , .		0
106	A Novel Approach of Process Mining with Event Graph. Lecture Notes in Computer Science, 2010, , 131-140.	1.3	0
107	Recommending Rating Values on Reviews for Designers. , 2014, , 1998-2009.		0
108	Conceptual Design of Intelligent Manufacturing Equipment Based on a Multi-source Heterogeneous Requirement Mapping Method. IFAC-PapersOnLine, 2022, 55, 475-480.	0.9	0