Feng Zhou

List of Publications by Year in descending order

114 papers	4,029 citations	126708 33 h-index	155451 55 g-index
117 all docs	117 docs citations	117 times ranked	4491 citing authors

#	Article	IF	Citations
1	Multicenter and Multichannel Pooling GCN for Early AD Diagnosis Based on Dual-Modality Fused Brain Network. IEEE Transactions on Medical Imaging, 2023, 42, 354-367.	5.4	22
2	Predicting Driver Fatigue in Monotonous Automated Driving with Explanation using GPBoost and SHAP. International Journal of Human-Computer Interaction, 2022, 38, 719-729.	3.3	8
3	Predicting clinical scores for Alzheimerâ€™s disease based on joint and deep learning. Expert Systems With Applications, 2022, 187, 115966.	4.4	45
4	Using Eye-Tracking Data to Predict Situation Awareness in Real Time During Takeover Transitions in Conditionally Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2284-2295.	4.7	38
5	An Investigation of Driversâ€™ Dynamic Situational Trust in Conditionally Automated Driving. IEEE Transactions on Human-Machine Systems, 2022, 52, 501-511.	2.5	6
6	Predicting Driver Takeover Time in Conditionally Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9580-9589.	4.7	13
7	Understanding Visual Investigation Patterns Through Digital â€œFieldâ€•Observations. , 2022, , .		1
8	Disengagement Cause-and-Effect Relationships Extraction Using an NLP Pipeline. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21430-21439.	4.7	5
9	Gene-related Parkinson's disease diagnosis via feature-based multi-branch octave convolution network. Computers in Biology and Medicine, 2022, 148, 105859.	3.9	3
10	Fused Sparse Network Learning for Longitudinal Analysis of Mild Cognitive Impairment. IEEE Transactions on Cybernetics, 2021, 51, 233-246.	6.2	43
11	Modeling dispositional and initial learned trust in automated vehicles with predictability and explainability. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 77, 102-116.	1.8	39
12	Graph convolution network with similarity awareness and adaptive calibration for disease-induced deterioration prediction. Medical Image Analysis, 2021, 69, 101947.	7.0	53
13	Use of rigid cucurbit[6]uril mediating selective water transport as a potential remedy to improve the permselectivity and durability of reverse osmosis membranes. Journal of Membrane Science, 2021, 623, 119017.	4.1	18
14	Combat COVID-19 infodemic using explainable natural language processing models. Information Processing and Management, 2021, 58, 102569.	5.4	79
15	Designing Alert Systems in Takeover Transitions: The Effects of Display Information and Modality. , 2021, , .		14
16	An Autonomous Driving System - Dedicated Vehicle for People with ASD and their Caregivers. , 2021, , .		2
17	Investigating External Interaction Modality and Design Between Automated Vehicles and Pedestrians at Crossings. , 2021, , .		3
18	Towards standardized metrics for measuring takeover performance in conditionally automated driving: A systematic review. Proceedings of the Human Factors and Ergonomics Society, 2021, 65, 1065-1069.	0.2	8

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19	Takeover Transition in Autonomous Vehicles: A YouTube Study. International Journal of Human-Computer Interaction, 2020, 36, 295-306.	3.3	33
20	Hybrid descriptor for placental maturity grading. Multimedia Tools and Applications, 2020, 79, 21223-21239.	2.6	1
21	BURSTS: A bottom-up approach for robust spotting of texts in scenes. Journal of Visual Communication and Image Representation, 2020, 71, 102843.	1.7	3
22	Predicting driver takeover performance in conditionally automated driving. Accident Analysis and Prevention, 2020, 148, 105748.	3.0	42
23	Psychophysiological responses to takeover requests in conditionally automated driving. Accident Analysis and Prevention, 2020, 148, 105804.	3.0	31
24	Identifying Different Spin Mixing Channels Occurring in Charge-Transfer States. Journal of Physical Chemistry C, 2020, 124, 14832-14837.	1.5	6
25	Towards augmenting cyber-physical-human collaborative cognition for human-automation interaction in complex manufacturing and operational environments. International Journal of Production Research, 2020, 58, 5089-5111.	4.9	39
26	Adaptive sparse learning using multi-template for neurodegenerative disease diagnosis. Medical Image Analysis, 2020, 61, 101632.	7.0	33
27	Driver fatigue transition prediction in highly automated driving using physiological features. Expert Systems With Applications, 2020, 147, 113204.	4.4	54
28	Fine-grained facial expression analysis using dimensional emotion model. Neurocomputing, 2020, 392, 38-49.	3.5	25
29	Deep and joint learning of longitudinal data for Alzheimer's disease prediction. Pattern Recognition, 2020, 102, 107247.	5.1	52
30	Convolutional descriptors aggregation via cross-net for skin lesion recognition. Applied Soft Computing Journal, 2020, 92, 106281.	4.1	37
31	Examining the effects of emotional valence and arousal on takeover performance in conditionally automated driving. Transportation Research Part C: Emerging Technologies, 2020, 112, 78-87.	3.9	76
32	A Machine Learning Approach to Customer Needs Analysis for Product Ecosystems. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	36
33	Otto: An Autonomous School Bus System for Parents and Children. , 2020, , .		6
34	Predicting Takeover Performance in Conditionally Automated Driving. , 2020, , .		5
35	Evaluating Effects of Cognitive Load, Takeover Request Lead Time, and Traffic Density on Driversâ€™ Takeover Performance in Conditionally Automated Driving. , 2020, , .		29
36	Examining effects of scenario type and vehicle speed on takeover readiness and performance in conditionally automated driving. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1997-1998.	0.2	1

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37	Dense Deconvolutional Network for Skin Lesion Segmentation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 527-537.	3.9	114
38	Melanoma Recognition in Dermoscopy Images via Aggregated Deep Convolutional Features. IEEE Transactions on Biomedical Engineering, 2019, 66, 1006-1016.	2.5	172
39	Structural design of microbicidal cationic oligomers and their synergistic interaction with azoles against Candida albicans. Scientific Reports, 2019, 9, 11885.	1.6	8
40	Graph Convolutional Network Analysis for Mild Cognitive Impairment Prediction. , 2019, , .		22
41	Longitudinal and Multi-modal Data Learning for Parkinsonâ€™s Disease Diagnosis via Stacked Sparse Auto-encoder. , 2019, , .		12
42	Decision-Augmented Generative Adversarial Network for Skin Lesion Segmentation. , 2019, , .		4
43	From Manual Driving to Automated Driving. , 2019, , .		63
44	Deep Learning Framework for Alzheimerâ€™s Disease Diagnosis via 3D-CNN and FSBi-LSTM. IEEE Access, 2019, 7, 63605-63618.	2.6	150
45	Examining the impacts of driversâ€™ emotions on takeover readiness and performance in highly automated driving. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 2076-2077.	0.2	6
46	MelanomaNet: An Effective Network for Melanoma Detection. , 2019, 2019, 1613-1616.		8
47	Parkinson's Disease Diagnosis via Joint Learning From Multiple Modalities and Relations. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1437-1449.	3.9	21
48	Neuroimaging Retrieval via Adaptive Ensemble Manifold Learning for Brain Disease Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1661-1673.	3.9	14
49	Multipurpose watermarking scheme via intelligent method and chaotic map. Multimedia Tools and Applications, 2019, 78, 27085-27107.	2.6	28
50	Analyzing Customer Needs of Product Ecosystems Using Online Product Reviews. , 2019, , .		8
51	A deeply supervised residual network for HEp-2 cell classification via cross-modal transfer learning. Pattern Recognition, 2018, 79, 290-302.	5.1	95
52	Multi-classification of Parkinson's Disease via Sparse Low-Rank Learning. , 2018, , .		2
53	Skin Lesion Segmentation via Dense Connected Deconvolutional Network. , 2018, , .		3
54	Longitudinal and multi-modal data learning for Parkinson's disease diagnosis. , 2018, , .		1

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55	Decision theoretic modeling of affective and cognitive needs for product experience engineering: key issues and a conceptual framework. Journal of Intelligent Manufacturing, 2017, 28, 1755-1767.	4.4	14
56	Affective parameter shaping in user experience prospect evaluation based on hierarchical Bayesian estimation. Expert Systems With Applications, 2017, 78, 1-15.	4.4	15
57	Joint detection and clinical score prediction in Parkinson's disease via multi-modal sparse learning. Expert Systems With Applications, 2017, 80, 284-296.	4.4	37
58	Role of Water in Catalyzing Proton Transfer in Glucose Dehydration to 5â€Hydroxymethylfurfural. ChemCatChem, 2017, 9, 2784-2789.	1.8	27
59	NHCâ€Ag/Pdâ€Catalyzed Reductive Carboxylation of Terminal Alkynes with CO₂ and H₂: A Combined Experimental and Computational Study for Fineâ€Tuned Selectivity. ChemSusChem, 2017, 10, 836-841.	3.6	26
60	Augmenting feature model through customer preference mining by hybrid sentiment analysis. Expert Systems With Applications, 2017, 89, 306-317.	4.4	47
61	Squid Suckerin Biomimetic Peptides Form Amyloid-like Crystals with Robust Mechanical Properties. Biomacromolecules, 2017, 18, 4240-4248.	2.6	21
62	Segmentation, Splitting, and Classification of Overlapping Bacteria in Microscope Images for Automatic Bacterial Vaginosis Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1095-1104.	3.9	36
63	Ultrafast Killing and Selfâ€Celling Antimicrobial Imidazolium Oligomers. Small, 2016, 12, 1928-1934.	5.2	27
64	Key issues of incorporating social network effects in product portfolio planning. , 2016, , .		1
65	Modular peptides from the thermoplastic squid sucker ring teeth form amyloid-like cross-Î² supramolecular networks. Acta Biomaterialia, 2016, 46, 41-54.	4.1	29
66	Low-Cost Phase-Selective Organogelators for Rapid Gelation of Crude Oils at Room Temperature. Langmuir, 2016, 32, 13510-13516.	1.6	46
67	Bilevel Game-Theoretic Optimization for Product Adoption Maximization Incorporating Social Network Effects. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1047-1060.	5.9	20
68	Self-sorting heterodimeric coiled coil peptides with defined and tuneable self-assembly properties. Scientific Reports, 2015, 5, 14063.	1.6	54
69	Computational Investigation of the 1,4â€Rh Shift in the [(Ph₂PCH₂CH₂PPh₂)Rh]â€Catalyzed Alkyne Arylation Reaction. European Journal of Organic Chemistry, 2015, 2015, 7114-7121.	1.2	8
70	Latent Customer Needs Elicitation by Use Case Analogical Reasoning From Sentiment Analysis of Online Product Reviews. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	81
71	Structural, Nanomechanical, and Computational Characterization of <scp>d</scp>,<scp>l</scp>-Cyclic Peptide Assemblies. ACS Nano, 2015, 9, 3360-3368.	7.3	39
72	A linear threshold-hurdle model for product adoption prediction incorporating social network effects. Information Sciences, 2015, 307, 95-109.	4.0	29

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73	Optimal and secure audio watermarking scheme based on self-adaptive particle swarm optimization and quaternion wavelet transform. Signal Processing, 2015, 113, 80-94.	2.1	34
74	Case Study of a Multidisciplinary Engineering Capstone Design Project: Electric Drive Control System. , 2014, , 24.263.1.		0
75	Augmented Affective-Cognition for Usability Study of In-Vehicle System User Interface. Journal of Computing and Information Science in Engineering, 2014, 14, .	1.7	11
76	Prospect-Theoretic Modeling of Customer Affective-Cognitive Decisions Under Uncertainty for User Experience Design. IEEE Transactions on Human-Machine Systems, 2014, 44, 468-483.	2.5	20
77	Emotion Prediction from Physiological Signals: A Comparison Study Between Visual and Auditory Elicitors. Interacting With Computers, 2014, 26, 285-302.	1.0	44
78	Optimal image watermarking scheme based on chaotic map and quaternion wavelet transform. Nonlinear Dynamics, 2014, 78, 2897-2907.	2.7	29
79	A Case Study of Modeling and Simulation for Manufacturing, Installation, and Maintenance of Solar Power Systems. , 2014, , .		0
80	Chirally selective growth and extraction of single-wall carbon nanotubes via fullerene nano-peapods. RSC Advances, 2013, 3, 16954.	1.7	16
81	The structural and bonding evolution in cysteineâ€“gold cluster complexes. Physical Chemistry Chemical Physics, 2013, 15, 1690-1698.	1.3	38
82	An improved user experience model with cumulative prospect theory. Procedia Computer Science, 2013, 16, 870-877.	1.2	10
83	Comparative studies on the electrochemical and optical properties of representative benzo[1,2-c;4,5-câ€²]bis[1,2,5]thiadiazole, [1,2,5]-thiadiazolo[3,4-g]quinoxaline and pyrazino[2,3-g]quinoxaline derivatives. Journal of Materials Chemistry C, 2013, 1, 1745.	2.7	20
84	Affective and cognitive design for mass personalization: status and prospect. Journal of Intelligent Manufacturing, 2013, 24, 1047-1069.	4.4	110
85	Hierarchical Bayesian Parameter Estimation for Modeling and Analysis of User Affective Influence. , 2013, , .		1
86	An Augmented Affective-Cognition Framework for Usability Studies of In-Vehicle System User Interface. , 2013, , .		1
87	A Nested Multivariate Utility Copulas Approach to Aggregating User Experience Partworths for Aircraft Cabin Interior Design. , 2013, , .		1
88	Eliciting, Measuring and Predicting Affect via Physiological Measures for Emotional Design. , 2013, , 41-62.		4
89	Quantification of Customer Perception on Airplane Cabin Lighting Design Based on Cumulative Prospect Theory. , 2013, , .		0
90	Locking high energy 1D chain of dichloromethane molecules containing abnormally short Clâ‹¯Cl contacts of 2.524 Å... inside organic crystals. Organic and Biomolecular Chemistry, 2012, 10, 5525.	1.5	7

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91	From benzobisthiadiazole, thiadiazoloquinoxaline to pyrazinoquinoxaline based polymers: effects of aromatic substituents on the performance of organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 18528.	6.7	30
92	Synthesis, structural investigation and computational modelling of water-binding aquafoldamers. Organic and Biomolecular Chemistry, 2012, 10, 1172-1180.	1.5	32
93	Chiral crystallization of aromatic helical foldamers via complementarities in shape and end functionalities. Chemical Science, 2012, 3, 2042.	3.7	52
94	A robust audio watermarking scheme based on lifting wavelet transform and singular value decomposition. Signal Processing, 2012, 92, 1985-2001.	2.1	115
95	User Experience Modeling and Simulation for Product Ecosystem Design Based on Fuzzy Reasoning Petri Nets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 201-212.	3.4	26
96	Five-Fold-Symmetric Macrocyclic Aromatic Pentamers: High-Affinity Cation Recognition, Ion-Pair-Induced Columnar Stacking, and Nanofibrillation. Journal of the American Chemical Society, 2011, 133, 13930-13933.	6.6	77
97	Substituent effect on the electronic properties of pyrazino[2,3-g] quinoxaline molecules. Journal of Materials Chemistry, 2011, 21, 17798.	6.7	12
98	A Case-Driven Ambient Intelligence System for Elderly in-Home Assistance Applications. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 179-189.	3.3	97
99	Tuning the crystal morphology and size of zeolitic imidazolate framework-8 in aqueous solution by surfactants. CrystEngComm, 2011, 13, 6937.	1.3	371
100	Petri Net-Based Affective-Cognitive Modeling for Product Ecosystem Design. , 2011, , .		0
101	Affect prediction from physiological measures via visual stimuli. International Journal of Human Computer Studies, 2011, 69, 801-819.	3.7	54
102	Encapsulation of Conventional and Unconventional Water Dimers by Water-Binding Foldamers. Organic Letters, 2011, 13, 3194-3197.	2.4	51
103	Fundamentals of product ecosystem design for user experience. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2011, 22, 43-61.	1.2	39
104	Crystallographic Realization of the Mathematically Predicted Densest Allâ€Pentagon Packing Lattice by C₅â€Symmetric â€œStickyâ€•Fluoropentamers. Angewandte Chemie - International Edition, 2011, 50, 10612-10615.	7.2	61
105	Affective-Cognitive Modeling for User Experience With Modular Colored Fuzzy Petri Nets. Journal of Computing and Information Science in Engineering, 2011, 11, .	1.7	9
106	Affect Prediction for Emotional Design: A Comparison Study of Physiological and Subjective Self-Report Data. , 2011, , .		3
107	Hybrid Association Mining and Refinement for Affective Mapping in Emotional Design. Journal of Computing and Information Science in Engineering, 2010, 10, .	1.7	18
108	An outdoor navigation aid system for the visually impaired. , 2010, , .		8

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109	Affective-cognition modeling of product ecosystems using timed colored Petri nets. , 2009, , .		0
110	A novel approach for the design of a highly selective sulfate-ion-selective electrode. Chemical Communications, 2009, , 325-327.	2.2	15
111	A Context-Aware Information Model for Elderly Homecare Services in a Smart Home. , 2009, , .		1
112	Trends in augmented reality tracking, interaction and display: A review of ten years of ISMAR. , 2008, , .		365
113	Constructing Support Vector Machine Kernels from Orthogonal Polynomials for Face and Speaker Verification. , 2007, , .		3
114	Towards Standardized Metrics for Measuring Takeover Performance in Conditionally Automated Driving: A Systematic Review. SSRN Electronic Journal, 0, , .	0.4	0