Xingda Qu

List of Publications by Year
in descending order

143	4,158	136885	143943
papers	citations	32	57
		h-index	g-index

148	148	148	3356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The roles of initial trust and perceived risk in public's acceptance of automated vehicles. Transportation Research Part C: Emerging Technologies, 2019, 98, 207-220.	3.9	423
2	Automated vehicle acceptance in China: Social influence and initial trust are key determinants. Transportation Research Part C: Emerging Technologies, 2020, 112, 220-233.	3.9	198
3	Understanding consumer acceptance of healthcare wearable devices: An integrated model of UTAUT and TTF. International Journal of Medical Informatics, 2020, 139, 104156.	1.6	154
4	An infrared and visible image fusion method based on multi-scale transformation and norm optimization. Information Fusion, 2021, 71, 109-129.	11.7	131
5	Risk assessment based collision avoidance decision-making for autonomous vehicles in multi-scenarios. Transportation Research Part C: Emerging Technologies, 2021, 122, 102820.	3.9	114
6	Effects of load carriage and fatigue on gait characteristics. Journal of Biomechanics, 2011, 44, 1259-1263.	0.9	113
7	A systematic review and meta-analysis of user acceptance of consumer-oriented health information technologies. Computers in Human Behavior, 2020, 104, 106147.	5.1	113
8	Deep Learning Approaches on Pedestrian Detection in Hazy Weather. IEEE Transactions on Industrial Electronics, 2020, 67, 8889-8899.	5.2	113
9	The role of personality traits and driving experience in self-reported risky driving behaviors and accident risk among Chinese drivers. Accident Analysis and Prevention, 2017, 99, 228-235.	3.0	111
10	A Systematic Review of Physiological Measures of Mental Workload. International Journal of Environmental Research and Public Health, 2019, 16, 2716.	1.2	111
11	Influence of traffic congestion on driver behavior in post-congestion driving. Accident Analysis and Prevention, 2020, 141, 105508.	3.0	110
12	A deep learning based image enhancement approach for autonomous driving at night. Knowledge-Based Systems, 2021, 213, 106617.	4.0	108
13	Drivers' visual scanning behavior at signalized and unsignalized intersections: A naturalistic driving study in China. Journal of Safety Research, 2019, 71, 219-229.	1.7	99
14	Decision making of autonomous vehicles in lane change scenarios: Deep reinforcement learning approaches with risk awareness. Transportation Research Part C: Emerging Technologies, 2022, 134, 103452.	3.9	97
15	Key characteristics in designing massive open online courses (MOOCs) for user acceptance: an application of the extended technology acceptance model. Interactive Learning Environments, 2022, 30, 882-895.	4.4	55
16	Affect prediction from physiological measures via visual stimuli. International Journal of Human Computer Studies, 2011, 69, 801-819.	3.7	54
17	An individual-specific gait pattern prediction model based on generalized regression neural networks. Gait and Posture, 2014, 39, 443-448.	0.6	53
18	Effects of external loads on balance control during upright stance: Experimental results and model-based predictions. Gait and Posture, 2009, 29, 23-30.	0.6	50

#	Article	IF	Citations
19	Integrating usability and social cognitive theories with the technology acceptance model to understand young users' acceptance of a health information portal. Health Informatics Journal, 2020, 26, 1347-1362.	1.1	49
20	Deep Reinforcement Learning Enabled Decision-Making for Autonomous Driving at Intersections. Automotive Innovation, 2020, 3, 374-385.	3.1	49
21	Beta oscillations in major depression â€" signalling a new cortical circuit for central executive function. Scientific Reports, 2017, 7, 18021.	1.6	48
22	Effects of button design characteristics on performance and perceptions of touchscreen use. International Journal of Industrial Ergonomics, 2018, 64, 59-68.	1.5	47
23	Extraction of descriptive driving patterns from driving data using unsupervised algorithms. Mechanical Systems and Signal Processing, 2021, 156, 107589.	4.4	47
24	Pre-impact fall detection. BioMedical Engineering OnLine, 2016, 15, 61.	1.3	46
25	Cross-Domain Object Detection for Autonomous Driving: A Stepwise Domain Adaptive YOLO Approach. IEEE Transactions on Intelligent Vehicles, 2022, 7, 603-615.	9.4	46
26	Emotion Prediction from Physiological Signals: A Comparison Study Between Visual and Auditory Elicitors. Interacting With Computers, 2014, 26, 285-302.	1.0	44
27	Source analysis of P3a and P3b components to investigate interaction of depression and anxiety in attentional systems. Scientific Reports, 2015, 5, 17138.	1.6	42
28	A balance control model of quiet upright stance based on an optimal control strategy. Journal of Biomechanics, 2007, 40, 3590-3597.	0.9	41
29	The association between sensation seeking and driving outcomes: A systematic review and meta-analysis. Accident Analysis and Prevention, 2019, 123, 222-234.	3.0	40
30	A Temporalâ€"Spatial Deep Learning Approach for Driver Distraction Detection Based on EEG Signals. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2665-2677.	3.4	39
31	Driving Anger, Aberrant Driving Behaviors, and Road Crash Risk: Testing of a Mediated Model. International Journal of Environmental Research and Public Health, 2019, 16, 297.	1.2	38
32	Effects of mental fatigue on biomechanics of slips. Ergonomics, 2014, 57, 1927-1932.	1.1	37
33	Hardware Development and Locomotion Control Strategy for an Over-Ground Gait Trainer: NaTUre-Gaits. IEEE Journal of Translational Engineering in Health and Medicine, 2014, 2, 1-9.	2.2	36
34	Age-Related Differences in the Relationships Between Lower-Limb Joint Proprioception and Postural Balance. Human Factors, 2019, 61, 702-711.	2.1	34
35	What drives people to use automated vehicles? A meta-analytic review. Accident Analysis and Prevention, 2021, 159, 106270.	3.0	34
36	Impacts of different types of insoles on postural stability in older adults. Applied Ergonomics, 2015, 46, 38-43.	1.7	33

#	Article	IF	Citations
37	Stepwise Domain Adaptation (SDA) for Object Detection in Autonomous Vehicles Using an Adaptive CenterNet. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17729-17743.	4.7	33
38	Differences in lower extremity muscular responses between successful and failed balance recovery after slips. International Journal of Industrial Ergonomics, 2012, 42, 499-504.	1.5	31
39	An individual-specific fall detection model based on the statistical process control chart. Safety Science, 2014, 64, 13-21.	2.6	30
40	Estimation of Foot Plantar Center of Pressure Trajectories with Low-Cost Instrumented Insoles Using an Individual-Specific Nonlinear Model. Sensors, 2018, 18, 421.	2.1	30
41	Driving anger and its relationship with aggressive driving among Chinese drivers. Transportation Research Part F: Traffic Psychology and Behaviour, 2018, 56, 496-507.	1.8	29
42	Classification of Children With Autism and Typical Development Using Eye-Tracking Data From Face-to-Face Conversations: Machine Learning Model Development and Performance Evaluation. Journal of Medical Internet Research, 2021, 23, e29328.	2.1	29
43	Uncontrolled manifold analysis of gait variability: Effects of load carriage and fatigue. Gait and Posture, 2012, 36, 325-329.	0.6	28
44	Effects of cognitive and physical loads on local dynamic stability during gait. Applied Ergonomics, 2013, 44, 455-458.	1.7	28
45	Effects of consumer-oriented health information technologies in diabetes management over time: a systematic review and meta-analysis of randomized controlled trials. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 1014-1023.	2.2	28
46	Presenting self-monitoring test results for consumers: the effects of graphical formats and age. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1036-1046.	2.2	28
47	Detection of Road Objects With Small Appearance in Images for Autonomous Driving in Various Traffic Situations Using a Deep Learning Based Approach. IEEE Access, 2020, 8, 211164-211172.	2.6	28
48	Effects of age and its interaction with task parameters on lifting biomechanics. Ergonomics, 2014, 57, 653-668.	1.1	27
49	Depression-Related Brain Connectivity Analyzed by EEG Event-Related Phase Synchrony Measure. Frontiers in Human Neuroscience, 2016, 10, 477.	1.0	27
50	Age-related cognitive task effects on gait characteristics: do different working memory components make a difference?. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 149.	2.4	25
51	Simulation of lifting motions using a novel multi-objective optimization approach. International Journal of Industrial Ergonomics, 2016, 53, 37-47.	1.5	24
52	Driving Style Classification Based on Driving Operational Pictures. IEEE Access, 2019, 7, 90180-90189.	2.6	24
53	Benefits of Imperfect Conflict Resolution Advisory Aids for Future Air Traffic Control. Human Factors, 2016, 58, 1007-1019.	2.1	23
54	Factors Affecting Consumer Acceptance of an Online Health Information Portal Among Young Internet Users. CIN - Computers Informatics Nursing, 2018, 36, 530-539.	0.3	23

#	Article	IF	Citations
55	Predicting unsafe behaviors at nuclear power plants: An integration of Theory of Planned Behavior and Technology Acceptance Model. International Journal of Industrial Ergonomics, 2020, 80, 103047.	1.5	23
56	An EEG Data Processing Approach for Emotion Recognition. IEEE Sensors Journal, 2022, 22, 10751-10763.	2.4	23
57	Differentiating slip-induced falls from normal walking and successful recovery after slips using kinematic measures. Ergonomics, 2013, 56, 856-867.	1.1	22
58	Training interventions are only effective on careful drivers, not careless drivers. Transportation Research Part F: Traffic Psychology and Behaviour, 2018, 58, 693-707.	1.8	21
59	Evaluation of the roles of passive and active control of balance using a balance control model. Journal of Biomechanics, 2009, 42, 1850-1855.	0.9	20
60	Model-based assessments of the effects of age and ankle fatigue on the control of upright posture in humans. Gait and Posture, 2009, 30, 518-522.	0.6	20
61	Human-Like Decision Making of Artificial Drivers in Intelligent Transportation Systems: An End-to-End Driving Behavior Prediction Approach. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 188-205.	2.6	20
62	Age-related biomechanical differences during asymmetric lifting. International Journal of Industrial Ergonomics, 2014, 44, 629-635.	1.5	19
63	Human factors assessment of conflict resolution aid reliability and time pressure in future air traffic control. Ergonomics, 2015, 58, 897-908.	1.1	19
64	Predicting Factors of Consumer Acceptance of Health Information Technologies. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 598-602.	0.2	19
65	Applying Machine Learning to Identify Autism With Restricted Kinematic Features. IEEE Access, 2019, 7, 157614-157622.	2.6	18
66	Freehand interaction with large displays: Effects of body posture, interaction distance and target size on task performance, perceived usability and workload. Applied Ergonomics, 2021, 93, 103370.	1.7	18
67	Influence of drug colour on perceived drug effects and efficacy. Ergonomics, 2018, 61, 284-294.	1.1	17
68	Identifying Autism with Head Movement Features by Implementing Machine Learning Algorithms. Journal of Autism and Developmental Disorders, 2022, 52, 3038-3049.	1.7	17
69	Effects of lower-limb muscular fatigue on stair gait. Journal of Biomechanics, 2015, 48, 4059-4064.	0.9	16
70	Influence of affective auditory stimuli on balance control during static stance. Ergonomics, 2017, 60, 404-409.	1.1	16
71	Atypical Head Movement during Face‑to‑Face Interaction in Children with Autism Spectrum Disorder. Autism Research, 2021, 14, 1197-1208.	2.1	16
72	Simulating Human Lifting Motions Using Fuzzy-Logic Control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 109-118.	3.4	15

#	Article	IF	Citations
73	Effects of neuromuscular fatigue on perceptual-cognitive skills between genders in the contribution to the knee joint loading during side-stepping tasks. Journal of Sports Sciences, 2015, 33, 1322-1331.	1.0	15
74	Effects of Fatigue on Balance Recovery From Unexpected Trips. Human Factors, 2020, 62, 919-927.	2.1	15
75	Learning Automated Driving in Complex Intersection Scenarios Based on Camera Sensors: A Deep Reinforcement Learning Approach. IEEE Sensors Journal, 2022, 22, 4687-4696.	2.4	15
76	An individualized gait pattern prediction model based on the least absolute shrinkage and selection operator regression. Journal of Biomechanics, 2020, 112, 110052.	0.9	14
77	Lower-extremity kinematics and postural stability during stair negotiation: Effects of two cognitive tasks. Clinical Biomechanics, 2014, 29, 40-46.	0.5	13
78	Continuous decision–making for autonomous driving at intersections using deep deterministic policy gradient. IET Intelligent Transport Systems, 2022, 16, 1669-1681.	1.7	13
79	Basketball Activity Classification Based on Upper Body Kinematics and Dynamic Time Warping. International Journal of Sports Medicine, 2020, 41, 255-263.	0.8	12
80	Effects of control-to-display gain and operation precision requirement on touchscreen operations in vibration environments. Applied Ergonomics, 2021, 91, 103293.	1.7	12
81	Subject-specific lower limb waveforms planning via artificial neural network. , 2011, 2011, 5975491.		11
82	Effects of multi-joint muscular fatigue on biomechanics of slips. Journal of Biomechanics, 2014, 47, 59-64.	0.9	11
83	Predicting Errors, Violations, and Safety Participation Behavior at Nuclear Power Plants. International Journal of Environmental Research and Public Health, 2020, 17, 5613.	1.2	10
84	Antecedents of self-reported safety behaviors among commissioning workers in nuclear power plants: The roles of demographics, personality traits and safety attitudes. Nuclear Engineering and Technology, 2021, 53, 1454-1463.	1.1	10
85	ML-ANet: A Transfer Learning Approach Using Adaptation Network for Multi-label Image Classification in Autonomous Driving. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	10
86	A novel phase-aligned analysis on motion patterns of table tennis strokes. International Journal of Performance Analysis in Sport, 2016, 16, 305-316.	0.5	9
87	Visual search in vibration environments: Effects of spatial ability, stimulus size and stimulus density. International Journal of Industrial Ergonomics, 2020, 79, 102988.	1.5	9
88	Subject-specific gait parameters prediction for robotic gait rehabilitation via generalized regression neural network. , 2011, , .		8
89	Modelling 3D control of upright stance using an optimal control strategy. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 1053-1063.	0.9	8
90	Lifting motion simulation using a hybrid approach. Ergonomics, 2015, 58, 1557-1570.	1.1	8

#	ARTICLE	IF	CITATIONS
91	Effects of backpack load on stair gait in young male adults. International Journal of Industrial Ergonomics, 2018, 67, 53-59.	1.5	8
92	Detecting falls using a fall indicator defined by a linear combination of kinematic measures. Safety Science, 2015, 72, 315-318.	2.6	7
93	Effects of time of day and taxi route complexity on navigation errors: An experimental study. Accident Analysis and Prevention, 2019, 125, 14-19.	3.0	7
94	Random and Short-Term Excessive Eye Movement in Children with Autism During Face-to-Face Conversation. Journal of Autism and Developmental Disorders, 2022, 52, 3699-3710.	1.7	7
95	The effects of gender, age and personality traits on risky driving behaviors. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2016, 33, 646.	0.1	7
96	The roles of lower-limb joint proprioception in postural control during gait. Applied Ergonomics, 2022, 99, 103635.	1.7	7
97	Subject tailored gait pattern planning for robotic gait rehabilitation. , 2010, , .		6
98	Pilotsâ€™ Scanning Behavior Between Different Airport Intersection Maneuvers in a Simulated Taxiing Task. IEEE Access, 2019, 7, 150395-150402.	2.6	6
99	A Soft Robotic Intervention for Gait Enhancement in Older Adults. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1838-1847.	2.7	6
100	Low-level noise affects balance control differently when applied at different body parts. Journal of Biomechanics, 2010, 43, 2936-2940.	0.9	5
101	Physical load handling and listening comprehension effects on balance control. Ergonomics, 2010, 53, 1461-1467.	1.1	5
102	Application of colour combinations on visual search tasks under vibration environments. Journal of Navigation, 2021, 74, 311-327.	1.0	5
103	Effects of vibration and target size on the use of varied computer input devices in basic humanâ€¢computer interaction tasks. Human Factors and Ergonomics in Manufacturing, 2022, 32, 199-213.	1.4	5
104	Pedestrian detection based on light perception fusion of visible and thermal images. Optics and Laser Technology, 2022, 156, 108466.	2.2	5
105	Evaluation of Three In-Vehicle Interactions from Drivers' Driving Performance and Eye Movement behavior. , 2018, , .		4
106	A Smart Portable Mat That Can Meausre Sitting Plantar Pressure Distribution with a High Resolution. , 2019, , .		4
107	Pilotsâ€™ Fixation Patterns During Taxiing and the Effects of Visibility. Aerospace Medicine and Human Performance, 2019, 90, 546-552.	0.2	4
108	Influence of perceived emotion and gender on social motor coordination. British Journal of Psychology, 2020, 111, 536-555.	1.2	4

#	Article	IF	Citations
109	Association between Crash Attributes and Drivers' Crash Involvement: A Study Based on Police-Reported Crash Data. International Journal of Environmental Research and Public Health, 2020, 17, 9020.	1.2	4
110	Gait initiation differences between overweight and normal weight individuals. Ergonomics, 2021, 64, 995-1001.	1.1	4
111	Excessive and less complex body movement in children with autism during face‐to‐face conversation: An objective approach to behavioral quantification. Autism Research, 2022, 15, 305-316.	2.1	4
112	Typing with mobile devices: A comparison of upper limb and shoulder muscle activities, typing performance and perceived workload under varied body postures, typing styles and device types. Applied Ergonomics, 2022, 102, 103760.	1.7	4
113	A Portable Insole for Foot Plantar Pressure Measurement Based on A Pressure Sensitive Etextile and Voltage Feedback Method. , 2018, , .		3
114	Automatic Activity Classification Based on Human Body Kinematics and Dynamic Time Wrapping. , 2018, , .		3
115	An Ankle Based Soft Active Orthotic Device Powered by Pneumatic Artificial Muscle. , 2019, , .		3
116	Evaluation of force-time curve analysis methods in the isometric mid-thigh pull test. Sports Biomechanics, 2020, , 1-17.	0.8	3
117	Integration of conflict resolution automation and vertical situation display for on-ground air traffic control operations. Journal of Navigation, 2021, 74, 619-632.	1.0	3
118	Characteristics of Visual Fixation in Chinese Children with Autism During Face-to-Face Conversations. Journal of Autism and Developmental Disorders, 2021, , 1.	1.7	3
119	Effects of Key Size, Gap and the Location of Key Characters on the Usability of Touchscreen Devices in Input Tasks. Lecture Notes in Computer Science, 2017, , 133-144.	1.0	3
120	Affect Prediction for Emotional Design: A Comparison Study of Physiological and Subjective Self-Report Data. , 2011, , .		3
121	Effects of Subsensory Noise and Fatigue on Knee Landing and Cross-over Cutting Biomechanics in Male Athletes. Journal of Applied Biomechanics, 2018, 34, 205-210.	0.3	2
122	Presentation of Personal Health Information for Consumers: An Experimental Comparison of Four Visualization Formats. Lecture Notes in Computer Science, 2018, , 490-500.	1.0	2
123	Effects of presentation formats on consumers' performance and perceptions in the use of personal health records among older and young adults. Patient Education and Counseling, 2019, 102, 578-585.	1.0	2
124	Combined Effects of Lower Limb Muscle Fatigue and Decision Making to the Knee Joint During Cutting Maneuvers Based on Two Different Position-Sense-Acuity Groups. Advances in Intelligent Systems and Computing, 2018, , 129-140.	0.5	2
125	Study of body weight shifting on robotic assisted gait rehabilitation with NaTUre-gaits. , 2011, , .		2
126	Ontology-based user requirements representation in the context of big data. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2017, 34, 173.	0.1	2

#	Article	IF	Citations
127	Automatic temporal event detection of the Ollie movement during skateboarding using wearable IMUs. Sports Biomechanics, 2021, , 1-15.	0.8	2
128	Can Fixation Frequency Be Used to Assess Pilotsâ€™ Mental Workload During Taxiing?. Lecture Notes in Computer Science, 2017, , 76-84.	1.0	2
129	Effects of Visual Input on Standing Balance Control When Back-Carrying External Loads. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1369-1372.	0.2	1
130	The Effect of Back-Carrying Load and Fatigue on Gait Characteristics at Heel Contact. Advances in Intelligent Systems and Computing, 2016, , 527-534.	0.5	1
131	Analysis of Human Postural Control during Spontaneous Sway Using an Optimal Control Model. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1137-1141.	0.2	0
132	Effects of load-carrying postures and gender on postural sway. , 2012, , .		0
133	Lower-extremity bracing can improve postural stability during walking. , 2012, , .		0
134	Age-Related Changes in Trunk and Knee Kinematics During Lifting. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 934-937.	0.2	0
135	Shoulder Joint Angle Errors Caused by Marker Offset. Procedia Engineering, 2015, 112, 479-484.	1.2	0
136	Effects of load information on biomechanical characteristics of lifting tasks. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2021, 38, 287-294.	0.1	0
137	Model-Based Investigation of the Roles of Efferent and Afferent Noise in Balance Control in the Postural Control System. IFMBE Proceedings, 2010, , 83-86.	0.2	0
138	Effects of Upper Limb Fatigue on Gait Stability. Advances in Intelligent Systems and Computing, 2019, , 502-510.	0.5	0
139	A Preliminary Study on the Assessment of Restrictedness in High Functioning Autism. Advances in Intelligent Systems and Computing, 2020, , 335-341.	0.5	0
140	Touchscreen Operations in Vibration Conditions: Task Precision Requirement Matters. , 2020, , .		0
141	Restricted Kinematics in Children With Autism in the Execution of Complex Oscillatory Arm Movements. Frontiers in Human Neuroscience, 2021, 15, 708969.	1.0	0
142	Influence of load knowledge on lifting biomechanics. International Journal of Occupational Safety and Ergonomics, 2023, 29, 230-235.	1.1	0
143	Influence of Load Knowledge on Biomechanics of Asymmetric Lifting. International Journal of Environmental Research and Public Health, 2022, 19, 3207.	1.2	0