Shu Ping Xiong

List of Publications by Year
in descending order

72	1,612	236612	315357
papers	citations	25 h-index	38 g-index

78	78	78	1515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Walking-in-place for omnidirectional VR locomotion using a single RGB camera. Virtual Reality, 2022, 26, 173-186.	4.1	5
2	A pilot study of biomechanical and ergonomic analyses of risky manual tasks in physical therapy. International Journal of Industrial Ergonomics, 2022, 89, 103298.	1.5	5
3	ViewfinderVR: configurable viewfinder for selection of distant objects in VR. Virtual Reality, 2022, 26, 1573-1592.	4.1	5
4	Effectiveness and Usability of a Novel Kinect-Based Tailored Interactive Fall Intervention System for Fall Prevention in Older People: A Preliminary Study. Frontiers in Public Health, 2022, 10, .	1.3	2
5	Pseudo-haptics and self-haptics for freehand mid-air text entry in VR. Applied Ergonomics, 2022, 104, 103819.	1.7	6
6	User Defined Walking-In-Place Gestures for Intuitive Locomotion in Virtual Reality. Lecture Notes in Computer Science, 2021, , 172-182.	1.0	0
7	Machine Learning-Based Pre-impact Fall Detection and Injury Prevention for the Elderly with Wearable Inertial Sensors. Lecture Notes in Networks and Systems, 2021, , 278-285.	0.5	4
8	Ergonomic postural assessment using a new open-source human pose estimation technology (OpenPose). International Journal of Industrial Ergonomics, 2021, 84, 103164.	1.5	60
9	A Large-Scale Open Motion Dataset (KFall) and Benchmark Algorithms for Detecting Pre-impact Fall of the Elderly Using Wearable Inertial Sensors. Frontiers in Aging Neuroscience, 2021, 13, 692865.	1.7	26
10	User-defined walking-in-place gestures for VR locomotion. International Journal of Human Computer Studies, 2021, 152, 102648.	3.7	13
11	The effect of slider design and length on user performance and preference of smartphone versions of the visual analogue scale. Applied Ergonomics, 2021, 97, 103521.	1.7	2
12	Foot models and measurements. , 2021, , 127-147.		1
13	Effects of working posture, lifting load, and standing surface on postural instability during simulated lifting tasks in construction. Ergonomics, 2020, 63, 1571-1583.	1.1	5
14	Development and Validation of a Wearable Inertial Sensors-Based Automated System for Assessing Work-Related Musculoskeletal Disorders in the Workspace. International Journal of Environmental Research and Public Health, 2020, 17, 6050.	1.2	42
15	An automated system for motor function assessment in stroke patients using motion sensing technology: A pilot study. Measurement: Journal of the International Measurement Confederation, 2020, 161, 107896.	2.5	12
16	Epidemiology of fall and its socioeconomic risk factors in community-dwelling Korean elderly. PLoS ONE, 2020, 15, e0234787.	1.1	41
17	Comparison of Joint Angle Measurements from Three Types of Motion Capture Systems for Ergonomic Postural Assessment. Advances in Intelligent Systems and Computing, 2020, , 3-11.	0.5	5
18	A Novel Hybrid Deep Neural Network to Predict Pre-impact Fall for Older People Based on Wearable Inertial Sensors. Frontiers in Bioengineering and Biotechnology, 2020, 8, 63.	2.0	40

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19	Subjective and Objective Measures to Assess Postural Instability: Their Linear Correlations and Abilities to Detect Effects of Work-Related Factors. Advances in Intelligent Systems and Computing, 2020, , 159-167.	0.5	0
20	Usability Evaluations of a Newly Developed Wearable Inertial Sensing System for Assessing Elderly Fall Risk. Advances in Intelligent Systems and Computing, 2019, , 423-434.	0.5	1
21	A Dynamic Time Warping Based Algorithm to Evaluate Kinect-Enabled Home-Based Physical Rehabilitation Exercises for Older People. Sensors, 2019, 19, 2882.	2.1	34
22	Comparison of fatal occupational injuries in construction industry in the United States, South Korea, and China. International Journal of Industrial Ergonomics, 2019, 71, 64-74.	1.5	65
23	Validity and Reliability of Upper Limb Functional Assessment Using the Microsoft Kinect V2 Sensor. Applied Bionics and Biomechanics, 2019, 2019, 1-14.	0.5	59
24	Kinematic Metrics for Upper-limb Functional Assessment of Stroke Patients. , 2019, , .		3
25	Relationship Between Socio-Economic Factors and Fall Risk for Elder Koreans. Advances in Intelligent Systems and Computing, 2019, , 435-444.	0.5	2
26	A Unified Deep-Learning Model for Classifying the Cross-Country Skiing Techniques Using Wearable Gyroscope Sensors. Sensors, 2018, 18, 3819.	2.1	19
27	Application of Wearable Inertial Sensors and A New Test Battery for Distinguishing Retrospective Fallers from Non-fallers among Community-dwelling Older People. Scientific Reports, 2018, 8, 16349.	1.6	51
28	What are the Major Risk Factors for Falls Among Community-Dwelling Korean Older Women?. Advances in Intelligent Systems and Computing, 2018, , 311-322.	0.5	0
29	Comparison of seven fall risk assessment tools in community-dwelling Korean older women. Ergonomics, 2017, 60, 421-429.	1.1	18
30	New Hick's law based reaction test App reveals â€œinformation processing speedâ€•better identifies high falls risk older people than â€œsimple reaction timeâ€• International Journal of Industrial Ergonomics, 2017, 58, 25-32.	1.5	11
31	Effect of Loading Symbol of Online Video on Perception of Waiting Time. International Journal of Human-Computer Interaction, 2017, 33, 1001-1009.	3.3	29
32	Exergame technology and interactive interventions for elderly fall prevention: A systematic literature review. Applied Ergonomics, 2017, 65, 570-581.	1.7	125
33	Accuracy of Base of Support Using an Inertial Sensor Based Motion Capture System. Sensors, 2017, 17, 2091.	2.1	29
34	The Effect of Video Loading Symbol on Waiting Time Perception. Lecture Notes in Computer Science, 2017, , 105-114.	1.0	0
35	Suppressive mechanism in motion perception correlates with postural control ability. Journal of Vision, 2017, 17, 363.	0.1	0
36	Effects of high heeled shoes wearing experience and heel height on human standing balance and functional mobility. Ergonomics, 2016, 59, 249-264.	1.1	34

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37	Eye movements and brain oscillations to symbolic safety signs with different comprehensibility. Journal of Physiological Anthropology, 2015, 34, 42.	1.0	5
38	Center-of-pressure based postural sway measures: Reliability and ability to distinguish between age, fear of falling and fall history. International Journal of Industrial Ergonomics, 2015, 47, 37-44.	1.5	66
39	Comprehension and redesign of recently introduced water-sport prohibitive symbols in South Korea. International Journal of Industrial Ergonomics, 2015, 50, 196-205.	1.5	8
40	Ergonomics and sustainable development in the past two decades (1992â€“2011): Research trends and how ergonomics can contribute to sustainable development. Applied Ergonomics, 2015, 46, 67-75.	1.7	73
41	Comprehensibility of Newly Introduced Water-sport Prohibitive Signs in Korea by Koreans and Westerners. Journal of the Ergonomics Society of Korea, 2015, 34, 63-73.	0.1	4
42	High heels on human stability and plantar pressure distribution. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1653-1657.	0.2	4
43	Horizontal cooperation and information sharing between suppliers in the manufacturerâ€“supplier triad. International Journal of Production Research, 2014, 52, 4526-4547.	4.9	23
44	Effects of heel height and wearing experience on human standing balance. Journal of Foot and Ankle Research, 2014, 7, .	0.7	2
45	Comprehension of Newly Introduced Water-Sport Prohibitive Signs in Korea by Westerners. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 2300-2304.	0.2	1
46	Contour Points based P2P Algorithm for Shape Matching and Image Retrieval. Applied Mathematics and Information Sciences, 2014, 8, 37-43.	0.7	2
47	A New K Nearest Neighbours Algorithm Using Cell Grids for 3D Scattered Point Cloud. Elektronika Ir Elektrotechnika, 2014, 20, .	0.4	5
48	A model for the perception of surface pressure on human foot. Applied Ergonomics, 2013, 44, 1-10.	1.7	19
49	Load distribution to minimise pressure-related pain on foot: a model. Ergonomics, 2013, 56, 1180-1193.	1.1	15
50	Foot models and measurements. , 2013, , 72-89.		2
51	The Influence of Foot Sizes on Human Balance. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 920-924.	0.2	3
52	A Preliminary Study on Effects of Vision, Standing Posture and Support Surface on Human Balance. , 2013, , 873-880.		1
53	Foot Characteristics and Related Empirical Models. Human Factors and Ergonomics, 2012, , 47-78.	0.0	0
54	A New Region Growing Algorithm for Triangular Mesh Recovery from Scattered 3D Points. Lecture Notes in Computer Science, 2011, , 237-246.	1.0	5

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55	A methodology for determining the allowances for fitting footwear. International Journal of Human Factors Modelling and Simulation, 2011, 2, 341.	0.1	4
56	Pressure thresholds of the human foot: measurement reliability and effects of stimulus characteristics. Ergonomics, 2011, 54, 282-293.	1.1	44
57	Flexible optimization decision for product design agility with embedded real options. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2011, 225, 1431-1446.	1.5	6
58	Science of Footwear Design. The Ergonomics Design & Mgmtory & Applications, 2011, , 365-379.	0.2	0
59	A computer-aided design system for foot-feature-based shoe last customization. International Journal of Advanced Manufacturing Technology, 2010, 46, 11-19.	1.5	49
60	An indentation apparatus for evaluating discomfort and pain thresholds in conjunction with mechanical properties of foot tissue in vivo. Journal of Rehabilitation Research and Development, 2010, 47, 629.	1.6	30
61	Foot Arch Characterization. Journal of the American Podiatric Medical Association, 2010, 100, 14-24.	0.2	75
62	An automatic method of measuring foot girths for custom footwear using local RBF implicit surfaces. International Journal of Computer Integrated Manufacturing, 2010, 23, 574-583.	2.9	6
63	Foot measurements from 2D digital images. , 2010, , .		4
64	The Study of Sizing System with 3D Measurement Data for Preschool Children in Central Taiwan. , 2010, , 83-91.		0
65	Foot deformations under different load-bearing conditions and their relationships to stature and body weight. Anthropological Science, 2009, 117, 77-88.	0.2	59
66	A CAD System for Shoe Last Customization. , 2009, , .		7
67	Effects of surface characteristics on the plantar shape of feet and subjectsâ€™ perceived sensations. Applied Ergonomics, 2009, 40, 267-279.	1.7	49
68	Footbed shapes for enhanced footwear comfort. Ergonomics, 2009, 52, 617-628.	1.1	41
69	The Pluses and Minuses of Obtaining Measurements from Digital Scans. Lecture Notes in Computer Science, 2009, , 681-690.	1.0	6
70	Computerized girth determination for custom footwear manufacture. Computers and Industrial Engineering, 2008, 54, 359-373.	3.4	38
71	Modelling foot height and foot shape-related dimensions. Ergonomics, 2008, 51, 1272-1289.	1.1	59
72	Foot measurements from three-dimensional scans: A comparison and evaluation of different methods. International Journal of Industrial Ergonomics, 2006, 36, 789-807.	1.5	137