

# Tilak Dutta

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

818  
citations

687363

13  
h-index

501196

28  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1023  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of using of a lower-extremity exoskeleton on disability of people with multiple sclerosis. Disability and Rehabilitation: Assistive Technology, 2023, 18, 475-482.	2.2	8
2	The effect of wear on slip-resistance of winter footwear with composite outsoles: A pilot study. Applied Ergonomics, 2022, 99, 103611.	3.1	6
3	Development and Evaluation of a Slip Detection Algorithm for Walking on Level and Inclined Ice Surfaces. Sensors, 2022, 22, 2370.	3.8	1
4	Investigation of the Kinematic Upper-Limb Movement Assessment (KUMA): A Pilot Study. Physiotherapy Canada Physiotherapie Canada, 2022, 74, 316-323.	0.6	1
5	Reducing fall risk for home care workers with slip resistant winter footwear. Applied Ergonomics, 2021, 90, 103230.	3.1	14
6	Determining the Risk of Slipping with Slip-Resistant Footwear. Lecture Notes in Networks and Systems, 2021, , 631-637.	0.7	0
7	Evaluation of Winter Footwear: Comparison of Test Methods to Determine Footwear Slip Resistance on Ice Surfaces. International Journal of Environmental Research and Public Health, 2021, 18, 405.	2.6	9
8	Development of an Automated Minimum Foot Clearance Measurement System: Proof of Principle. Sensors, 2021, 21, 976.	3.8	4
9	A novel approach for slip resistance evaluation of winter footwear based on probability of slipping and cost analysis. Safety Science, 2021, 137, 105133.	4.9	2
10	A Scoping Review on Minimum Foot Clearance: An Exploration of Level-Ground Clearance in Individuals with Abnormal Gait. International Journal of Environmental Research and Public Health, 2021, 18, 10289.	2.6	6
11	Quantifying Mobility Scooter Performance in Winter Environments. Archives of Physical Medicine and Rehabilitation, 2021, 102, 1902-1909.	0.9	3
12	Evaluating a wearable biofeedback device for reducing end-range sagittal lumbar spine flexion among home caregivers. Applied Ergonomics, 2021, 97, 103547.	3.1	8
13	A Scoping Review on Minimum Foot Clearance Measurement: Sensing Modalities. International Journal of Environmental Research and Public Health, 2021, 18, 10848.	2.6	7
14	Evacuation solutions for individuals with functional limitations in the built environment: a scoping review protocol. Systematic Reviews, 2021, 10, 316.	5.3	1
15	Training Caregivers to Reduce Spine Flexion Using Biofeedback. Advances in Intelligent Systems and Computing, 2020, , 241-251.	0.6	1
16	Bathing frail seniors at home: Home care providersâ€™ approaches. Work, 2020, 66, 499-517.	1.1	4
17	Reducing lumbar spine flexion using real-time biofeedback during patient handling tasks. Work, 2020, 66, 41-51.	1.1	15
18	Toward mitigating pressure injuries: Detecting patient orientation from vertical bed reaction forces. Journal of Rehabilitation and Assistive Technologies Engineering, 2020, 7, 205566832091216.	0.9	3

#	ARTICLE	IF	CITATIONS
19	Reducing the Risk of Falls by 78% with a New Generation of Slip Resistant Winter Footwear. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 279-285.	0.6	2
20	Selecting slip resistant winter footwear for personal support workers. <i>Work</i> , 2019, 64, 135-151.	1.1	12
21	Slip resistance and wearability of safety footwear used on icy surfaces for outdoor municipal workers. <i>Work</i> , 2019, 62, 37-47.	1.1	14
22	Effects of multi-functional surface-texturing on the ice friction and abrasion characteristics of hybrid composite materials for footwear. <i>Wear</i> , 2019, 418-419, 253-264.	3.1	9
23	Assisting Frail Seniors With Toileting in a Home Bathroom: Approaches Used by Home Care Providers. <i>Journal of Applied Gerontology</i> , 2019, 38, 717-749.	2.0	12
24	Improving Slip Resistance on Ice: Surface-Textured Composite Materials for Slip-Resistant Footwear. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 759-766.	0.6	2
25	Evaluation of the Keeogo exoskeleton for assisting ambulatory activities in people with multiple sclerosis: an open-label, randomized, cross-over trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 117.	4.6	41
26	Evolution of the Coefficient of Friction with Surface Wear for Advanced Surface Textured Composites. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600983.	3.7	24
27	<i>Gerontechnology</i> . , 2017, , 1319-1324.		0
28	Multifunctional Textured Surfaces with Enhanced Friction and Hydrophobic Behaviors Produced by Fiber Debonding and Pullout. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29818-29826.	8.0	19
29	Goal Attainment Scaling in Individuals with Upper Limb Spasticity Post Stroke. <i>Occupational Therapy International</i> , 2016, 23, 379-389.	0.7	19
30	Slip resistance of winter footwear on snow and ice measured using maximum achievable incline. <i>Ergonomics</i> , 2016, 59, 717-728.	2.1	20
31	Pilot Quality Improvement Study of SafeBack. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 610-614.	0.3	0
32	High friction on ice provided by elastomeric fiber composites with textured surfaces. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	19
33	Assessing the performance of winter footwear using a new maximum achievable incline method. <i>Applied Ergonomics</i> , 2015, 50, 218-225.	3.1	12
34	The Evaluation of Vertical Pole Configuration and Location on Assisting the Sit-to-Stand Movement in Older Adults with Mobility Limitations. <i>Assistive Technology</i> , 2015, 27, 208-218.	2.0	7
35	“Rehabilitation Engineering: Designing for Ability” A summer outreach course for attracting talented high school students to the rehabilitation engineering field. <i>IFMBE Proceedings</i> , 2015, , 1624-1627.	0.3	0
36	Spine shrinkage and cumulative load for determining risk of back injury in caregivers. <i>Theoretical Issues in Ergonomics Science</i> , 2014, 15, 636-646.	1.8	0

#	ARTICLE	IF	CITATIONS
37	Footwear and Mobility Scooters: Developing Performance Standards For Winter Conditions Using An Adjustable Ramp Test. Archives of Physical Medicine and Rehabilitation, 2014, 95, e105.	0.9	1
38	Outcomes Rather than Outputs: Collaborative Closed-Loop Design and Commercialization. Technology Transfer and Entrepreneurship, 2014, 1, 9-14.	0.1	0
39	A biomechanical assessment of floor and overhead lifts using one or two caregivers for patient transfers. Applied Ergonomics, 2012, 43, 521-531.	3.1	36
40	Evaluation of the Kinect <sup>®</sup> sensor for 3-D kinematic measurement in the workplace. Applied Ergonomics, 2012, 43, 645-649.	3.1	372
41	The effects of caregiver experience on low back loads during floor and overhead lift maneuvering activities. International Journal of Industrial Ergonomics, 2011, 41, 653-660.	2.6	9
42	Design of built environments to accommodate mobility scooter users: part I. Disability and Rehabilitation: Assistive Technology, 2011, 6, 67-76.	2.2	13
43	Design of built environments to accommodate mobility scooter users: part II. Disability and Rehabilitation: Assistive Technology, 2011, 6, 432-439.	2.2	15
44	Usability testing of multimodal feedback interface and simulated collision-avoidance power wheelchair for long-term-care home residents with cognitive impairments. Journal of Rehabilitation Research and Development, 2011, 48, 801.	1.6	30
45	Utilization of ultrasound sensors for anti-collision systems of powered wheelchairs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 24-32.	4.9	27