Laura Justham

List of Publications by Year
in descending order

38 papers	596 citations	840776 11 h-index	642732 23 g-index
40 all docs	40 docs citations	40 times ranked	561 citing authors

#	Article	IF	Citations
1	Soft pneumatic grippers embedded with stretchable electroadhesion. Smart Materials and Structures, 2018, 27, 055006.	3.5	108
2	Optimization and experimental verification of coplanar interdigital electroadhesives. Journal Physics D: Applied Physics, 2016, 49, 415304.	2.8	64
3	Embedded programming and real-time signal processing of swimming strokes. Sports Engineering, 2011, 14, 1-14.	1.1	54
4	Investigation of relationship between interfacial electroadhesive force and surface texture. Journal Physics D: Applied Physics, 2016, 49, 035303.	2.8	42
5	Toward Adaptive and Intelligent Electroadhesives for Robotic Material Handling. IEEE Robotics and Automation Letters, 2017, 2, 538-545.	5.1	33
6	Visualization methods for understanding the dynamic electroadhesion phenomenon. Journal Physics D: Applied Physics, 2017, 50, 205304.	2.8	27
7	Development of a real time system for monitoring of swimming performance. Procedia Engineering, 2010, 2, 2707-2712.	1.2	23
8	A Concept Selection Method for Designing Climbing Robots. Key Engineering Materials, 0, 649, 22-29.	0.4	23
9	Experimental study of relationship between interfacial electroadhesive force and applied voltage for different substrate materials. Applied Physics Letters, 2017, 110, .	3.3	21
10	Feature extraction and tracking of a weld joint for adaptive robotic welding. , 2014, , .		20
11	Geometric Optimisation of Electroadhesive Actuators Based on 3D Electrostatic Simulation and its Experimental Verification. IFAC-PapersOnLine, 2016, 49, 309-315.	0.9	20
12	Autonomous metrology for robot mounted 3D vision systems. CIRP Annals - Manufacturing Technology, 2017, 66, 483-486.	3.6	18
13	Dynamic signature for tumble turn performance in swimming. Procedia Engineering, 2010, 2, 3391-3396.	1.2	15
14	New lifecycle monitoring system for electronic manufacturing with embedded wireless components. Circuit World, 2010, 36, 33-39.	0.9	12
15	The development of an inexpensive passive marker system for the analysis of starts and turns in swimming. Procedia Engineering, 2010, 2, 2727-2733.	1.2	11
16	Three-dimensional vision analysis to measure the release characteristics of elite bowlers in cricket. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2013, 227, 116-127.	0.7	10
17	Experimental study of a flexible and environmentally stable electroadhesive device. Applied Physics Letters, 2017, 111, .	3.3	10
18	Quantification and characterization of cricket bowling technique for the development of the parameters required for a novel training system for cricket. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2008, 222, 61-76.	0.7	9

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19	Novel metrics and methodology for the characterisation of 3D imaging systems. Optics and Lasers in Engineering, 2017, 91, 169-177.	3.8	9
20	Quantification of the Cricket Bowling Delivery; a Study of Elite Players to Gauge Variability and Controllability. , 2006, , 205-210.		9
21	Human skill capture: A Hidden Markov Model of force and torque data in peg-in-a-hole assembly process. , 2016, , .		7
22	Virtual Reality Study of Human Adaptability in Industrial Human-Robot Collaboration. , 2020, , .		7
23	From Light to Displacement: A Design Framework for Optimising Spectral-Domain Low-Coherence Interferometric Sensors for In Situ Measurement. Applied Sciences (Switzerland), 2020, 10, 8590.	2.5	6
24	A Multi-sensor System for Monitoring the Performance of Elite Swimmers. Communications in Computer and Information Science, 2012, , 350-362.	0.5	6
25	Symmetrical electroadhesives independent of different interfacial surface conditions. Applied Physics Letters, 2017, 111, .	3.3	5
26	Batter's behaviour during training when facing a bowling machine and when facing a bowler. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2010, 224, 201-208.	0.7	4
27	A Comparison of the Manufacturing Resilience between Fixed Automation Systems and Mobile Robots in Large Structure Assembly. Procedia CIRP, 2016, 57, 235-240.	1.9	4
28	Design and development of a novel, integrated bowling machine for cricket. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2009, 223, 125-137.	0.7	3
29	Characterizing the influence of surface roughness and inclination on 3D vision sensor performance. , 2015, , .		3
30	Pragmatic Micrometre to Millimetre Calibration Using Multiple Methods for Low-Coherence Interferometer in Embedded Metrology Applications. Sensors, 2021, 21, 5101.	3.8	3
31	A Self-organisation Model for Mobile Robots in Large Structure Assembly Using Multi-agent Systems. Studies in Computational Intelligence, 2017, , 83-91.	0.9	3
32	Performance evaluation of a three dimensional laser scanner for industrial applications. , 2014, , .		2
33	Dynamic vs dedicated automation systems - a study in large structure assembly. Production and Manufacturing Research, 2020, 8, 35-58.	1.5	1
34	Use of the quality function deployment methodology in the development of a novel training system for cricket. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2008, 222, 103-112.	0.7	0
35	The development of a novel cricket bowling system: recreating spin and swing bowling deliveries at the elite level. Journal of Physics: Conference Series, 2008, 105, 012003.	0.4	0
36	Development of an Optimised Dataset for Training a Deep Neural Network. Advances in Transdisciplinary Engineering, 2021, , .	0.1	0

#	Article	IF	Citations
37	Engineering a Device which Imparts Spin onto a Cricket Ball. , 2007, , .		0
38	Investigating the optimisation of real-world and synthetic object detection training datasets through the consideration of environmental and simulation factors. Intelligent Systems With Applications, 2022, , 200079.	3.0	0