

Alvaro Page

List of Publications by Year in descending order

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430874

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#	ARTICLE	IF	CITATIONS
1	A Computationally Efficient Musculoskeletal Model of the Lower Limb for the Control of Rehabilitation Robots: Assumptions and Validation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2654.	2.5	3
2	A New Method for Time Normalization Based on the Continuous Phase: Application to Neck Kinematics. <i>Mathematics</i> , 2021, 9, 3138.	2.2	2
3	Passive Exercise Adaptation for Ankle Rehabilitation Based on Learning Control Framework. <i>Sensors</i> , 2020, 20, 6215.	3.8	16
4	Paths of the cervical instantaneous axis of rotation during active movementsâ€”patterns and reliability. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 1147-1157.	2.8	5
5	Talipes Equinovarus Treatment in Infants Treated by the Ponseti Method Compared With Posterior-Only Release: A Mid-Childhood Comparison of Results. <i>Journal of Foot and Ankle Surgery</i> , 2020, 59, 919-926.	1.0	5
6	Mechatronic design, experimental setup, and control architecture design of a novel 4 DoF parallel manipulator. <i>Mechanics Based Design of Structures and Machines</i> , 2018, 46, 425-439.	4.7	21
7	Experimental Setup of a Novel 4 DoF Parallel Manipulator. <i>Mechanisms and Machine Science</i> , 2018, , 389-400.	0.5	1
8	Movement Variability Increases With Shoulder Pain When Compensatory Strategies of the Upper Body Are Constrained. <i>Journal of Motor Behavior</i> , 2018, 50, 510-516.	0.9	3
9	A 3-PRS parallel manipulator for ankle rehabilitation: towards a low-cost robotic rehabilitation. <i>Robotica</i> , 2017, 35, 1939-1957.	1.9	35
10	Analytical study of the effects of soft tissue artefacts on functional techniques to define axes of rotation. <i>Journal of Biomechanics</i> , 2017, 62, 60-67.	2.1	9
11	Design and Kinematic Analysis of a Novel 3UPS/RPU Parallel Kinematic Mechanism With 2T2R Motion for Knee Diagnosis and Rehabilitation Tasks. <i>Journal of Mechanisms and Robotics</i> , 2017, 9, .	2.2	24
12	Controllerâ€”observer design and dynamic parameter identification for model-based control of an electromechanical lower-limb rehabilitation system. <i>International Journal of Control</i> , 2017, 90, 702-714.	1.9	11
13	Dynamic thoracohumeral kinematics are dependent upon the etiology of the shoulder injury. <i>PLoS ONE</i> , 2017, 12, e0183954.	2.5	2
14	Design of a 3-UPS-RPU Parallel Robot for Knee Diagnosis and Rehabilitation. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016, , 303-310.	0.6	8
15	Dynamic Parameter Identification of Subject-Specific Body Segment Parameters Using Robotics Formalism: Case Study Head Complex. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 051009.	1.3	7
16	Impact of architectural variables on acoustic perception in concert halls. <i>Journal of Environmental Psychology</i> , 2016, 48, 108-119.	5.1	7
17	The reliability of humerothoracic angles during arm elevation depends on the representation of rotations. <i>Journal of Biomechanics</i> , 2016, 49, 502-506.	2.1	13
18	Video analysis of sliding chains: A dynamic model based on variable-mass systems. <i>American Journal of Physics</i> , 2015, 83, 500-505.	0.7	4

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19	Experimental study of viscous friction in undergraduate physics laboratory: introduction of phase diagrams to analyse dynamic equilibrium. <i>European Journal of Physics</i> , 2015, 36, 035033.	0.6	0
20	Model of Soft Tissue Artifact Propagation to Joint Angles in Human Movement Analysis. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 034502.	1.3	4
21	Point of optimal kinematic error: Improvement of the instantaneous helical pivot method for locating centers of rotation. <i>Journal of Biomechanics</i> , 2014, 47, 1742-1747.	2.1	9
22	Experimental analysis of nonlinear oscillations in the undergraduate physics laboratory. <i>European Journal of Physics</i> , 2014, 35, 015005.	0.6	6
23	Influence of Emotions on Web Usability for Users with Motor Disorders. <i>Lecture Notes in Computer Science</i> , 2014, , 256-259.	1.3	0
24	An approach to defining strategies for improving city perception. Case study of Valencia, Spain. <i>Cities</i> , 2013, 35, 78-88.	5.6	19
25	Propagation of soft tissue artifacts to the center of rotation: A model for the correction of functional calibration techniques. <i>Journal of Biomechanics</i> , 2013, 46, 2619-2625.	2.1	16
26	A new non-invasive and low cost method for the characterisation of pronation patterns by using AR-markers and functional classification. <i>Footwear Science</i> , 2013, 5, S70-S71.	2.1	1
27	Ankle 3D-kinematics measurement by using a single camera and AR-markers. <i>Footwear Science</i> , 2013, 5, S73-S74.	2.1	0
28	Mechatronic Development and Dynamic Control of a 3-DOF Parallel Manipulator. <i>Mechanics Based Design of Structures and Machines</i> , 2012, 40, 434-452.	4.7	21
29	Subjective evaluation of music hall acoustics: Response of expert and non-expert users. <i>Building and Environment</i> , 2012, 58, 1-13.	6.9	27
30	Kinematic description of soft tissue artifacts: quantifying rigid versus deformation components and their relation with bone motion. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 1173-1181.	2.8	30
31	Representation of planar motion of complex joints by means of rolling pairs. Application to neck motion. <i>Journal of Biomechanics</i> , 2011, 44, 747-750.	2.1	11
32	Comparison of Functional Regression and Nonfunctional Regression Approaches to the Study of the Walking Velocity Effect in Force Platform Measures. <i>Journal of Applied Biomechanics</i> , 2010, 26, 234-239.	0.8	8
33	A methodology for dynamic parameters identification of 3-DOF parallel robots in terms of relevant parameters. <i>Mechanism and Machine Theory</i> , 2010, 45, 1337-1356.	4.5	52
34	Optimal average path of the instantaneous helical axis in planar motions with one functional degree of freedom. <i>Journal of Biomechanics</i> , 2010, 43, 375-378.	2.1	11
35	Dynamic simulation of a parallel robot: Coulomb friction and stick-slip in robot joints. <i>Robotica</i> , 2010, 28, 35-45.	1.9	19
36	Forward Dynamics of 3-DOF Parallel Robots: a Comparison Among Different Models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010, , 283-290.	0.6	0

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37	Experimental Analysis of Rigid Body Motion. A Vector Method to Determine Finite and Infinitesimal Displacements From Point Coordinates. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	26
38	Kinematics of the trunk in sitting posture: An analysis based on the instantaneous axis of rotation. Ergonomics, 2009, 52, 695-706.	2.1	10
39	Representation of motion of human joints by means of rolling pairs. Application to neck motion. Gait and Posture, 2009, 30, S51-S52.	1.4	0
40	Analysis of gender differences in the perception of properties: An application for differential semantics. Journal of Industrial Engineering and Management, 2009, 2, .	1.5	3
41	Identification of dynamic parameters of a 3-DOF RPS parallel manipulator. Mechanism and Machine Theory, 2008, 43, 1-17.	4.5	90
42	Analysis of multiple waveforms by means of functional principal component analysis: normal versus pathological patterns in sit-to-stand movement. Medical and Biological Engineering and Computing, 2008, 46, 551-561.	2.8	25
43	The accuracy of webcams in 2D motion analysis: sources of error and their control. European Journal of Physics, 2008, 29, 857-870.	0.6	13
44	Dynamic Parameter Identification for Parallel Manipulators. , 2008, , .		6
45	A simple model to analyze the effectiveness of linear time normalization to reduce variability in human movement analysis. Gait and Posture, 2007, 25, 153-156.	1.4	11
46	Analysis of 3D rigid-body motion using photogrammetry: A simple model based on a mechanical analogy. American Journal of Physics, 2007, 75, 56-61.	0.7	17
47	Application of product differential semantics to quantify purchaser perceptions in housing assessment. Building and Environment, 2007, 42, 2488-2497.	6.9	50
48	Experimental determination of instantaneous screw axis in human motions. Error analysis. Mechanism and Machine Theory, 2007, 42, 429-441.	4.5	14
49	Analysis of lumbar flexion in sitting posture: Location of lumbar vertebrae with relation to easily identifiable skin marks. International Journal of Industrial Ergonomics, 2006, 36, 937-942.	2.6	13
50	Normalizing temporal patterns to analyze sit-to-stand movements by using registration of functional data. Journal of Biomechanics, 2006, 39, 2526-2534.	2.1	27
51	Effect of marker cluster design on the accuracy of human movement analysis using stereophotogrammetry. Medical and Biological Engineering and Computing, 2006, 44, 1113-1119.	2.8	27
52	On the use of local fitting techniques for the analysis of physical dynamic systems. European Journal of Physics, 2006, 27, 273-279.	0.6	28
53	Application of video photogrammetry to analyse mechanical systems in the undergraduate physics laboratory. European Journal of Physics, 2006, 27, 647-655.	0.6	9
54	A Methodological Approach to the Determination of the Cause-Effect Relations in Automotive Seating Comfort. , 2005, , .		3

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55	Applications of Kansei Engineering to Personalization. , 2003, , 301-313.		4
56	Relationship between comfort and back posture and mobility in sitting-posture. Applied Ergonomics, 2002, 33, 1-8.	3.1	188
57	System to measure the use of the backrest in sitting-posture office tasks. Applied Ergonomics, 2000, 31, 247-254.	3.1	76
58	Technique to measure lumbar curvature in the ergonomic evaluation of chairs: description and validation. Clinical Biomechanics, 2000, 15, 786-789.	1.2	10
59	Functional Data Analysis as a Tool to Find Discomfort Evolution Patterns in Passenger Car Seats. , 0, , .		2
60	Biomechanical Constraints in the Design of Robotic Systems for Tremor Suppression. , 0, , .		3