Alvaro Page

List of Publications by Year
in descending order

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60 papers	1,073 citations	430874 18 h-index	434195 31 g-index
67 all docs	67 docs citations	67 times ranked	867 citing authors

#	Article	IF	Citations
1	Relationship between comfort and back posture and mobility in sitting-posture. Applied Ergonomics, 2002, 33, 1-8.	3.1	188
2	Identification of dynamic parameters of a 3-DOF RPS parallel manipulator. Mechanism and Machine Theory, 2008, 43, 1-17.	4.5	90
3	System to measure the use of the backrest in sitting-posture office tasks. Applied Ergonomics, 2000, 31, 247-254.	3.1	76
4	A methodology for dynamic parameters identification of 3-DOF parallel robots in terms of relevant parameters. Mechanism and Machine Theory, 2010, 45, 1337-1356.	4.5	52
5	Application of product differential semantics to quantify purchaser perceptions in housing assessment. Building and Environment, 2007, 42, 2488-2497.	6.9	50
6	A 3-PRS parallel manipulator for ankle rehabilitation: towards a low-cost robotic rehabilitation. Robotica, 2017, 35, 1939-1957.	1.9	35
7	Kinematic description of soft tissue artifacts: quantifying rigid versus deformation components and their relation with bone motion. Medical and Biological Engineering and Computing, 2012, 50, 1173-1181.	2.8	30
8	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
9	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
10	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
11	Subjective evaluation of music hall acoustics: Response of expert and non-expert users. Building and Environment, 2012, 58, 1-13.	6.9	27
12	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
13	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
14	Design and Kinematic Analysis of a Novel 3UPS/RPU Parallel Kinematic Mechanism With 2T2R Motion for Knee Diagnosis and Rehabilitation Tasks. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	24
15	Mechatronic Development and Dynamic Control of a 3-DOF Parallel Manipulator. Mechanics Based Design of Structures and Machines, 2012, 40, 434-452.	4.7	21
16	Mechatronic design, experimental setup, and control architecture design of a novel 4 DoF parallel manipulator. Mechanics Based Design of Structures and Machines, 2018, 46, 425-439.	4.7	21
17	Dynamic simulation of a parallel robot: Coulomb friction and stickâ€“slip in robot joints. Robotica, 2010, 28, 35-45.	1.9	19
18	An approach to defining strategies for improving city perception. Case study of Valencia, Spain. Cities, 2013, 35, 78-88.	5.6	19

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19	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
20	Propagation of soft tissue artifacts to the center of rotation: A model for the correction of functional calibration techniques. Journal of Biomechanics, 2013, 46, 2619-2625.	2.1	16
21	Passive Exercise Adaptation for Ankle Rehabilitation Based on Learning Control Framework. Sensors, 2020, 20, 6215.	3.8	16
22	Experimental determination of instantaneous screw axis in human motions. Error analysis. Mechanism and Machine Theory, 2007, 42, 429-441.	4.5	14
23	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
24	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
25	The reliability of humerothoracic angles during arm elevation depends on the representation of rotations. Journal of Biomechanics, 2016, 49, 502-506.	2.1	13
26	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
27	Optimal average path of the instantaneous helical axis in planar motions with one functional degree of freedom. Journal of Biomechanics, 2010, 43, 375-378.	2.1	11
28	Representation of planar motion of complex joints by means of rolling pairs. Application to neck motion. Journal of Biomechanics, 2011, 44, 747-750.	2.1	11
29	Controllerâ€“observer design and dynamic parameter identification for model-based control of an electromechanical lower-limb rehabilitation system. International Journal of Control, 2017, 90, 702-714.	1.9	11
30	Technique to measure lumbar curvature in the ergonomic evaluation of chairs: description and validation. Clinical Biomechanics, 2000, 15, 786-789.	1.2	10
31	Kinematics of the trunk in sitting posture: An analysis based on the instantaneous axis of rotation. Ergonomics, 2009, 52, 695-706.	2.1	10
32	Application of video photogrammetry to analyse mechanical systems in the undergraduate physics laboratory. European Journal of Physics, 2006, 27, 647-655.	0.6	9
33	Point of optimal kinematic error: Improvement of the instantaneous helical pivot method for locating centers of rotation. Journal of Biomechanics, 2014, 47, 1742-1747.	2.1	9
34	Analytical study of the effects of soft tissue artefacts on functional techniques to define axes of rotation. Journal of Biomechanics, 2017, 62, 60-67.	2.1	9
35	Comparison of Functional Regression and Nonfunctional Regression Approaches to the Study of the Walking Velocity Effect in Force Platform Measures. Journal of Applied Biomechanics, 2010, 26, 234-239.	0.8	8
36	Design of a 3-UPS-RPU Parallel Robot for Knee Diagnosis and Rehabilitation. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 303-310.	0.6	8

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37	Dynamic Parameter Identification of Subject-Specific Body Segment Parameters Using Robotics Formalism: Case Study Head Complex. Journal of Biomechanical Engineering, 2016, 138, 051009.	1.3	7
38	Impact of architectural variables on acoustic perception in concert halls. Journal of Environmental Psychology, 2016, 48, 108-119.	5.1	7
39	Dynamic Parameter Identification for Parallel Manipulators. , 2008, , .		6
40	Experimental analysis of nonlinear oscillations in the undergraduate physics laboratory. European Journal of Physics, 2014, 35, 015005.	0.6	6
41	Paths of the cervical instantaneous axis of rotation during active movementsâ€"patterns and reliability. Medical and Biological Engineering and Computing, 2020, 58, 1147-1157.	2.8	5
42	Talipes Equinovarus Treatment in Infants Treated by the Ponseti Method Compared With Posterior-Only Release: A Mid-Childhood Comparison of Results. Journal of Foot and Ankle Surgery, 2020, 59, 919-926.	1.0	5
43	Model of Soft Tissue Artifact Propagation to Joint Angles in Human Movement Analysis. Journal of Biomechanical Engineering, 2014, 136, 034502.	1.3	4
44	Video analysis of sliding chains: A dynamic model based on variable-mass systems. American Journal of Physics, 2015, 83, 500-505.	0.7	4
45	Applications of Kansei Engineering to Personalization. , 2003, , 301-313.		4
46	A Methodological Approach to the Determination of the Cause-Effect Relations in Automotive Seating Comfort. , 2005, , .		3
47	Movement Variability Increases With Shoulder Pain When Compensatory Strategies of the Upper Body Are Constrained. Journal of Motor Behavior, 2018, 50, 510-516.	0.9	3
48	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
49	Biomechanical Constraints in the Design of Robotic Systems for Tremor Suppression. , 0, , .		3
50	A Computationally Efficient Musculoskeletal Model of the Lower Limb for the Control of Rehabilitation Robots: Assumptions and Validation. Applied Sciences (Switzerland), 2022, 12, 2654.	2.5	3
51	Functional Data Analysis as a Tool to Find Discomfort Evolution Patterns in Passenger Car Seats. , 0, , .		2
52	Dynamic thoracohumeral kinematics are dependent upon the etiology of the shoulder injury. PLoS ONE, 2017, 12, e0183954.	2.5	2
53	A New Method for Time Normalization Based on the Continuous Phase: Application to Neck Kinematics. Mathematics, 2021, 9, 3138.	2.2	2
54	A new non-invasive and low cost method for the characterisation of pronation patterns by using AR-markers and functional classification. Footwear Science, 2013, 5, S70-S71.	2.1	1

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55	Experimental Setup of a Novel 4 DoF Parallel Manipulator. Mechanisms and Machine Science, 2018, , 389-400.	0.5	1
56	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
57	Ankle 3D-kinematics measurement by using a single camera and AR-markers. Footwear Science, 2013, 5, S73-S74.	2.1	0
58	Experimental study of viscous friction in undergraduate physics laboratory: introduction of phase diagrams to analyse dynamic equilibrium. European Journal of Physics, 2015, 36, 035033.	0.6	0
59	Forward Dynamics of 3-DOF Parallel Robots: a Comparison Among Different Models. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 283-290.	0.6	0
60	Influence of Emotions on Web Usability for Users with Motor Disorders. Lecture Notes in Computer Science, 2014, , 256-259.	1.3	0