Ricardo M L Barros

List of Publications by Year
in descending order

51 papers	1,782 citations	304743 22 h-index	276875 41 g-index
51 all docs	51 docs citations	51 times ranked	1728 citing authors

#	Article	IF	Citations
1	Comparison of physical and technical performance in European soccer matchâ€play: FA Premier League and La Liga. European Journal of Sport Science, 2011, 11, 51-59.	2.7	289
2	A flexible software for tracking of markers used in human motion analysis. Computer Methods and Programs in Biomedicine, 2003, 72, 155-165.	4.7	148
3	Tracking soccer players aiming their kinematical motion analysis. Computer Vision and Image Understanding, 2006, 101, 122-135.	4.7	119
4	Analysis of the distances covered by first division brazilian soccer players obtained with an automatic tracking method. Journal of Sports Science and Medicine, 2007, 6, 233-42.	1.6	112
5	Gait Training Combining Partial Body-Weight Support, a Treadmill, and Functional Electrical Stimulation: Effects on Poststroke Gait. Physical Therapy, 2007, 87, 1144-1154.	2.4	99
6	Quantitative analysis of Brazilian football players' organisation on the pitch. Sports Biomechanics, 2012, 11, 85-96.	1.6	88
7	Finger Kinematic Modeling and Real-Time Hand Motion Estimation. Annals of Biomedical Engineering, 2007, 35, 1989-2002.	2.5	71
8	A spectral analysis of team dynamics and tactics in Brazilian football. Journal of Sports Sciences, 2013, 31, 1568-1577.	2.0	66
9	Background recovering in outdoor image sequences: An example of soccer players segmentation. Image and Vision Computing, 2006, 24, 363-374.	4.5	63
10	Tracking of wheelchair rugby players in the 2008 Demolition Derby final. Journal of Sports Sciences, 2010, 28, 193-200.	2.0	60
11	Three-dimensional kinematic analysis of upper and lower limb motion during gait of post-stroke patients. Brazilian Journal of Medical and Biological Research, 2012, 45, 537-545.	1.5	42
12	Analysis of the distances covered and technical actions performed by professional tennis players during official matches. Journal of Sports Sciences, 2017, 35, 361-368.	2.0	41
13	A method to synchronise video cameras using the audio band. Journal of Biomechanics, 2006, 39, 776-780.	2.1	38
14	Team Dynamics, Running, and Skill-Related Performances of Brazilian U11 to Professional Soccer Players During Official Matches. Journal of Strength and Conditioning Research, 2019, 33, 2202-2216.	2.1	35
15	Tracking soccer players using the graph representation. , 2004, , .		33
16	Quantitative underwater 3D motion analysis using submerged video cameras: accuracy analysis and trajectory reconstruction. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 1240-1248.	1.6	33
17	Comparison of different camera calibration approaches for underwater applications. Journal of Biomechanics, 2012, 45, 1112-1116.	2.1	32
18	In Vivo Validation of a Realistic Kinematic Model for the Trapezio-Metacarpal Joint Using an Optoelectronic System. Annals of Biomedical Engineering, 2008, 36, 1268-1280.	2.5	31

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19	Coordination analysis of playersâ€™ distribution in football using cross-correlation and vector coding techniques. Journal of Sports Sciences, 2016, 34, 2224-2232.	2.0	31
20	A multiple camera methodology for automatic localization and tracking of futsal players. Pattern Recognition Letters, 2014, 39, 21-30.	4.2	28
21	Measuring handball players trajectories using an automatically trained boosting algorithm. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 53-63.	1.6	25
22	Alteration in the center of mass trajectory of patients after stroke. Topics in Stroke Rehabilitation, 2015, 22, 349-356.	1.9	23
23	Effects of flooring on required coefficient of friction: Elderly adult vs. middle-aged adult barefoot gait. Applied Ergonomics, 2015, 50, 147-152.	3.1	23
24	Relationship between bow stability and postural control in recurve archery. European Journal of Sport Science, 2021, 21, 515-520.	2.7	23
25	Are Action Sport Cameras Accurate Enough for 3D Motion Analysis? A Comparison With a Commercial Motion Capture System. Journal of Applied Biomechanics, 2019, 35, 80-86.	0.8	22
26	Method for the estimation of a double hinge kinematic model for the trapeziometacarpal joint using MR imaging. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 387-396.	1.6	19
27	Action Sport Cameras as an Instrument to Perform a 3D Underwater Motion Analysis. PLoS ONE, 2016, 11, e0160490.	2.5	19
28	Validation of a video-based system for automatic tracking of tennis players. International Journal of Performance Analysis in Sport, 2018, 18, 137-150.	1.1	17
29	Effects of Wheelchair Sports on Respiratory Muscle Strength and Thoracic Mobility of Individuals with Spinal Cord Injury. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 470-477.	1.4	16
30	Improved accuracy in 3D analysis using DLT after lens distortion correction. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 993-1002.	1.6	16
31	A 3D kinematic analysis of breathing patterns in competitive swimmers. Journal of Sports Sciences, 2012, 30, 1551-1560.	2.0	15
32	Wheelchair Rugby Improves Pulmonary Function in People With Tetraplegia After 1 Year of Training. Journal of Strength and Conditioning Research, 2013, 27, 50-56.	2.1	14
33	In-air versus underwater comparison of 3D reconstruction accuracy using action sport cameras. Journal of Biomechanics, 2017, 51, 77-82.	2.1	13
34	Grip pattern and finger coordination differences between pianists and non-pianists. Journal of Electromyography and Kinesiology, 2012, 22, 412-418.	1.7	12
35	Dois mÃ©todos diferentes para anÃ¡lise cinemÃ¡tica dos movimentos de cabeÃ§a durante a coordenaÃ§Ã£o viso-cefÃ¡lica de lactentes. Brazilian Journal of Physical Therapy, 2008, 12, 425-431.	2.5	10
36	Comparison of Protocols for Walking and Running Kinematics Based on Skin Surface Markers and Rigid Clusters of Markers. International Journal of Sports Medicine, 2009, 30, 827-833.	1.7	10

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37	Proposition and Evaluation of a Novel Method Based on Videogrammetry to Measure Three-Dimensional Rib Motion during Breathing. Journal of Applied Biomechanics, 2009, 25, 247-252.	0.8	9
38	Interpersonal coordination analysis of tennis players from different levels during official matches. Journal of Biomechanics, 2018, 67, 106-113.	2.1	9
39	Coordination between ribs motion and thoracoabdominal volumes in swimmers during respiratory maneuvers. Journal of Sports Science and Medicine, 2008, 7, 195-200.	1.6	8
40	The coefficient of friction in Parkinsonï¿½s disease gait. Functional Neurology, 2017, 32, 17.	1.3	6
41	A novel video-based method using projected light to measure trunk volumes during respiration. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 707-713.	1.6	3
42	Isomap transform for segmenting human body shapes. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 783-795.	1.6	3
43	Analysis of required coefficient of friction in running and walking. Sports Biomechanics, 2021, 20, 768-780.	1.6	3
44	Thoracoabdominal mobility is improved in subjects with tetraplegia after one year of wheelchair rugby training. Science and Sports, 2016, 31, 261-269.	0.5	2
45	Assessment of breathing volumes and kinematics by motion capture systems: Comparison of protocols. , 2017, , .		2
46	AnÃ¡lise cinemÃ¡tica tridimensional do movimento de eqÃ¼inos em esteira rolante. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2007, 59, 862-868.	0.4	1
47	Automatic rally detection on broadcast tennis videos. Sports Technology, 2013, 6, 55-62.	0.4	0
48	Analysis of variability in measurements on soccer tactic positions. Revista Paulista De EducaÃ§Ã£o FÃsica, 2001, 15, 111.	0.0	0
49	Ultrasonography as an ancillary method for the positioning of markers in equine motion analysis. Brazilian Journal of Veterinary Research and Animal Science, 2014, 51, 24.	0.2	0
50	Inspiratory muscle strength in subjects with tetraplegia: viability of evaluation through the measurement of maximal inspiratory pressure. Fisioterapia Em Movimento, 2014, 27, 371-377.	0.1	0
51	Kinematic analysis of the Patella during the squat movement with and without weight-bearing. , 0, , .		0