Serge L Van Sint Jan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Imaging Assessment of Thoracic Outlet Syndrome. Radiographics, 2006, 26, 1735-1750.	3.3	227
2	Validity and reliability of the Kinect within functional assessment activities: Comparison with standard stereophotogrammetry. Gait and Posture, 2014, 39, 593-598.	1.4	220
3	The use of commercial video games in rehabilitation: a systematic review. International Journal of Rehabilitation Research, 2016, 39, 277-290.	1.3	207
4	The effects of embalming using a 4% formalin solution on the compressive mechanical properties of human cortical bone. Clinical Biomechanics, 2008, 23, 1294-1298.	1.2	122
5	The EuroPhysiome, STEP and a roadmap for the virtual physiological human. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2979-2999.	3.4	92
6	The Virtual Physiological Human — A European Initiative for in silico Human Modelling —. Journal of Physiological Sciences, 2008, 58, 441-446.	2.1	74
7	Registration of 6-DOFs electrogoniometry and CT medical imaging for 3D joint modeling. Journal of Biomechanics, 2002, 35, 1475-1484.	2.1	73
8	Can serious games be incorporated with conventional treatment of children with cerebral palsy? A review. Research in Developmental Disabilities, 2014, 35, 1899-1913.	2.2	68
9	Identifying the location of human skeletal landmarks: why standardized definitions are necessarya proposal. Clinical Biomechanics, 2005, 20, 659-660.	1.2	52
10	Structural behaviour and strain distribution of the long bones of the human lower limbs. Journal of Biomechanics, 2010, 43, 826-835.	2.1	48
11	Determination of the precision and accuracy of morphological measurements using the Kinectâ,,¢ sensor: comparison with standard stereophotogrammetry. Ergonomics, 2014, 57, 622-631.	2.1	44
12	Effect of sub-optimal neuromotor control on the hip joint load during level walking. Journal of Biomechanics, 2011, 44, 1716-1721.	2.1	42
13	Precision of shoulder anatomical landmark calibration by two approaches: A CAST-like protocol and a new anatomical palpator method. Gait and Posture, 2009, 29, 587-591.	1.4	40
14	In vivo thorax 3D modelling from costovertebral joint complex kinematics. Clinical Biomechanics, 2014, 29, 434-438.	1.2	40
15	Multiscale modelling of the skeleton for the prediction of the risk of fracture. Clinical Biomechanics, 2008, 23, 845-852.	1.2	36
16	Balance improvement after physical therapy training using specially developed serious games for cerebral palsy children: preliminary results. Disability and Rehabilitation, 2017, 39, 403-406.	1.8	35
17	Multimod Data Manager: A tool for data fusion. Computer Methods and Programs in Biomedicine, 2007, 87, 148-159.	4.7	34
18	Double-step registration of in vivo stereophotogrammetry with both in vitro 6-DOFs electrogoniometry and CT medical imaging. Journal of Biomechanics, 2006, 39, 2087-2095.	2.1	32

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19	Femur shape prediction by multiple regression based on quadric surface fitting. Journal of Biomechanics, 2011, 44, 712-718.	2.1	32
20	In vitro 3D-kinematics of the upper cervical spine: helical axis and simulation for axial rotation and flexion extension. Surgical and Radiologic Anatomy, 2010, 32, 141-151.	1.2	31
21	Joint kinematics simulation from medical imaging data. IEEE Transactions on Biomedical Engineering, 1997, 44, 1175-1184.	4.2	30
22	Sex determination using the Probabilistic Sex Diagnosis (DSP: Diagnose Sexuelle Probabiliste) tool in a virtual environment. Forensic Science International, 2014, 234, 189.e1-189.e8.	2.2	29
23	Model-based approach for human kinematics reconstruction from markerless and marker-based motion analysis systems. Journal of Biomechanics, 2013, 46, 2363-2371.	2.1	28
24	The thenar muscles. Surgical and Radiologic Anatomy, 1992, 14, 325-329.	1.2	26
25	A novel method for in-vivo evaluation of finger kinematics including definition of healthy motion patterns. Clinical Biomechanics, 2016, 31, 47-58.	1.2	26
26	Calibration and validation of 6 DOFs instrumented spatial linkage for biomechanical applications. A practical approach. Medical Engineering and Physics, 2004, 26, 251-260.	1.7	25
27	The lacertus fibrosus of the biceps brachii muscle: an anatomical study. Surgical and Radiologic Anatomy, 2014, 36, 713-9.	1.2	25
28	Low-dose computed tomography: A solution for in vivo medical imaging and accurate patient-specific 3D bone modeling?. Clinical Biomechanics, 2006, 21, 992-998.	1.2	24
29	Musculoskeletal Modeling of the Suboccipital Spine. Spine, 2011, 36, E413-E422.	2.0	24
30	Development of multimedia learning modules for teaching human anatomy: Application to osteology and functional anatomy. The Anatomical Record, 2003, 272B, 98-106.	1.8	22
31	Automated functional upper limb evaluation of patients with Friedreich ataxia using serious games rehabilitation exercises. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 87.	4.6	22
32	3D Analysis of Upper Limbs Motion during Rehabilitation Exercises Using the KinectTM Sensor: Development, Laboratory Validation and Clinical Application. Sensors, 2018, 18, 2216.	3.8	21
33	The insertion of the extensor digitorum tendon on the proximal phalanx. Journal of Hand Surgery, 1996, 21, 69-76.	1.6	20
34	In Vivo Registration of Both Electrogoniometry and Medical Imaging: Development and Application on the Ankle Joint Complex. IEEE Transactions on Biomedical Engineering, 2006, 53, 759-762.	4.2	20
35	Introducing Anatomical and Physiological Accuracy in Computerized Anthropometry for Increasing the Clinical Usefulness of Modeling Systems. Critical Reviews in Physical and Rehabilitation Medicine, 2005, 17, 249-274.	0.1	20
36	Effects of proximal row carpectomy on wrist biomechanics: A cadaveric study. Clinical Biomechanics, 2011, 26, 718-724.	1.2	19

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37	Methods for determining hip and lumbosacral joint centers in a seated position from external anatomical landmarks. Journal of Biomechanics, 2015, 48, 396-400.	2.1	19
38	The Use of Mobile Games to Assess Cognitive Function of Elderly with and without Cognitive Impairment. Journal of Alzheimer's Disease, 2018, 64, 1285-1293.	2.6	19
39	Data representation for joint kinematics simulation of the lower limb within an educational context. Medical Engineering and Physics, 2003, 25, 213-220.	1.7	18
40	Determination of Repeatability of Kinect Sensor. Telemedicine Journal and E-Health, 2014, 20, 451-453.	2.8	18
41	Femoral curvature variability in modern humans using three-dimensional quadric surface fitting. Surgical and Radiologic Anatomy, 2015, 37, 1169-1177.	1.2	18
42	Relationship between costovertebral joint kinematics and lung volume in supine humans. Respiratory Physiology and Neurobiology, 2016, 232, 57-65.	1.6	18
43	Validation of the Balance Board for Clinical Evaluation of Balance During Serious Gaming Rehabilitation Exercises. Telemedicine Journal and E-Health, 2016, 22, 709-717.	2.8	18
44	Anatomical variations of the intrinsic muscles of the thumb. The Anatomical Record, 1994, 238, 131-146.	1.8	17
45	Prediction of joint center location by customizable multiple regressions: Application to clavicle, scapula and humerus. Journal of Biomechanics, 2009, 42, 319-324.	2.1	17
46	Suitability of functional evaluation embedded in serious game rehabilitation exercises to assess motor development across lifespan. Gait and Posture, 2017, 57, 35-39.	1.4	17
47	Cost-effective (gaming) motion and balance devices for functional assessment: Need or hype?. Journal of Biomechanics, 2016, 49, 2561-2565.	2.1	15
48	Virtual reconstruction of the Neandertal lower limbs with an estimation of hamstring muscle moment arms. Comptes Rendus - Palevol, 2010, 9, 445-454.	0.2	12
49	Foot roll-over evaluation based on 3D dynamic foot scan. Gait and Posture, 2014, 39, 577-582.	1.4	12
50	In-vivo analysis of sternal angle, sternal and sternocostal kinematics in supine humans during breathing. Journal of Biomechanics, 2017, 64, 32-40.	2.1	11
51	Impact of the mandibular divergence on the position of the inferior alveolar nerve and mylohyoid nerve: a computed tomography study and its relevance to bilateral sagittal split osteotomy. Surgical and Radiologic Anatomy, 2013, 35, 241-247.	1.2	10
52	Effect of anatomical landmark perturbation on mean helical axis parameters of in vivo upper costovertebral joints. Journal of Biomechanics, 2015, 48, 534-538.	2.1	10
53	Modelling towards a more holistic medicine: The Virtual Physiological Human (VPH). Morphologie, 2019, 103, 127-130.	0.9	9
54	Development and use of the strain gauge for study the constraint of tibio-femoral joint in dynamic movement: Feasibility and first results. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 259-260.	1.6	8

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55	In vitro biomechanical study of femoral torsion disorders: Effect on moment arms of thigh muscles. Clinical Biomechanics, 2013, 28, 187-192.	1.2	8
56	Interchangeability of the Wii Balance Board for Bipedal Balance Assessment. JMIR Rehabilitation and Assistive Technologies, 2015, 2, e8.	2.2	8
57	Balance training using specially developed serious games for cerebral palsy children, a feasibility study. , 2014, , .		8
58	The VAKHUM project: virtual animation of the kinematics of the human. Theoretical Issues in Ergonomics Science, 2005, 6, 277-279.	1.8	7
59	Quantified relationships of the radial nerve with the radial groove and selected humeral landmarks. Surgical and Radiologic Anatomy, 2008, 30, 627-631.	1.2	7
60	Tendon and fascial structure contributions to knee muscle excursions and knee joint displacement. Clinical Biomechanics, 2014, 29, 1070-1076.	1.2	7
61	Physiologically corrected coupled motion during gait analysis using a model-based approach. Gait and Posture, 2015, 41, 319-322.	1.4	7
62	Interaction Detection with Depth Sensing and Body Tracking Cameras in Physical Rehabilitation. Methods of Information in Medicine, 2016, 55, 70-78.	1.2	7
63	Pelvis and femur shape prediction using principal component analysis for body model on seat comfort assessment. Impact on the prediction of the used palpable anatomical landmarks as predictors. PLoS ONE, 2019, 14, e0221201.	2.5	7
64	A portable system for foot biomechanical analysis during gait. Gait and Posture, 2014, 40, 420-428.	1.4	6
65	The end of active video games and the consequences for rehabilitation. Physiotherapy Research International, 2018, 23, e1752.	1.5	6
66	Metatarsal arch deformation and forefoot kinematics during gait in asymptomatic subjects. International Biomechanics, 2019, 6, 75-84.	1.0	6
67	Comparison between two HNK-1-related antibodies immunoreactivity (HNK-1-anti-leu 7 and) Tj ETQq1 1 0.7843	14 rgBT /C	Overlock 10 Tf
68	Implementation of interactive motion representation (IMR) within the data manager. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 7-8.	1.6	5
69	Motion representation of the long fingers: A proposal for the definitions of new anatomical frames. Journal of Biomechanics, 2014, 47, 1299-1306.	2.1	5
70	Further consideration of the curvature of the Neandertal Femur. American Journal of Physical Anthropology, 2018, 165, 94-107.	2.1	5
71	Multimodal visualization interface for data management, self-learning and data presentation. Surgical and Radiologic Anatomy, 2006, 28, 518-524.	1.2	4
72	Hand skin reconstruction from skeletal landmarks. International Journal of Legal Medicine, 2007, 121, 511-515.	2.2	4

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73	Validation of the Wii Balance Board to assess balance modifications induced by increased respiratory loads in healthy subjects. Gait and Posture, 2019, 68, 449-452.	1.4	4
74	Modern visualisation tools for research and education in biomechanics. , 0, , .		3
75	Use of embedded strain gages for the in-vitro study of proximal tibial cancellous bone deformation during knee flexion-extension movement: development, reproducibility and preliminary results of feasibility after frontal low femoral osteotomy. Journal of Orthopaedic Surgery and Research, 2011, 6, 12.	2.3	3
76	In vitro biomechanical study of femoral torsion disorders: effect on tibial proximal epiphyseal cancellous bone deformation. Surgical and Radiologic Anatomy, 2011, 33, 439-449.	1.2	3
77	DIFFERENCES BETWEEN CONTRALATERAL BONES OF THE HUMAN LOWER LIMBS: A MULTISCALE INVESTIGATION. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450032.	0.7	3
78	Prediction of the drilling path to surgically pin the femoral neck from the spatial location of pelvic and femoral anatomical landmarks: A cadaver validation study. Medical Engineering and Physics, 2017, 40, 117-121.	1.7	3
79	Validation of the Wii Balance Board to assess static balance during dual-task activity in healthy subjects. Medicine in Novel Technology and Devices, 2019, 1, 100003.	1.6	3
80	The biomechanical role of the lacertus fibrosus of the biceps brachii Muscle. Surgical and Radiologic Anatomy, 2021, 43, 1587-1594.	1.2	3
81	How different are the Kebara 2 ribs to modern humans?. Journal of Anthropological Sciences, 2017, 95, 183-201.	0.4	3
82	3D muscle moment arms using musculoskeletal modelling of the upper cervical spine. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 83-84.	1.6	2
83	Medicine and the Virtual Physiological Human. , 2019, , 577-589.		2
84	High resolution magnetic resonance imaging application in anatomy: the extensor digitorum muscle insertion on the first phalanx. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 21-27.	2.0	1
85	Effects of Irradiation and Methyl-Triazene on Craniofacial Development in Mouse Embryos: A Semiautomated Morphometric Analysis. Cleft Palate-Craniofacial Journal, 1998, 35, 342-350.	0.9	1
86	Upper cervical spine modelling:in-vitro3D kinematics and helical axis estimation. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 87-88.	1.6	1
87	Hip joint centre location from anatomical landmarks for automotive seated posture reconstruction. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 195-197.	1.6	1
88	Biomechanical Analysis of Rehabilitation Exercises Performed During Serious Games Exercises. Lecture Notes in Computer Science, 2016, , 302-311.	1.3	1
89	The use of cognitive mobile games to assess cognitive function of healthy subjects under various inspiratory loads. Medicine in Novel Technology and Devices, 2019, 1, 100005.	1.6	1

90 Interactive visualization of morphological and kinematic data of human movement. , 2005, , .

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91	"When two make less than oneâ€: Exploratory study of an weight illusion. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 247-248.	1.6	0
92	In vivokinematics of human wrist joints: Combination of medical imaging and three-dimensional electrogoniometry. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 249-250.	1.6	0
93	Detection of Interaction with Depth Sensing and Body Tracking Cameras in Physical Rehabilitation. Communications in Computer and Information Science, 2015, , 306-317.	0.5	0
94	Validation of the Balance Boardâ,,¢ for Clinical Evaluation of Balance Through Different Conditions. Communications in Computer and Information Science, 2015, , 11-23.	0.5	0
95	Quantification of the relative orientation and position of the mandibular condyles. Morphologie, 2021, 105, 275-280.	0.9	0
96	Combined Motions of the Shoulder Joint Complex for Model-Based Simulation: Modeling of the Shoulder Rhythm (ShRm). , 2014, , 205-232.		0
97	Challenges in the system modeling of the musculoskeletal apparatus. , 2022, , 585-607.		0