

# Lars MÃ¼ndermann

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,237  
citations

759233

12  
h-index

888059

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Implications of increased medio-lateral trunk sway for ambulatory mechanics. Journal of Biomechanics, 2008, 41, 165-170.	2.1	229
2	The evolution of methods for the capture of human movement leading to markerless motion capture for biomechanical applications. Journal of NeuroEngineering and Rehabilitation, 2006, 3, 6.	4.6	211
3	The use of positional information in the modeling of plants. , 2001, , .		162
4	Markerless Motion Capture through Visual Hull, Articulated ICP and Subject Specific Model Generation. International Journal of Computer Vision, 2010, 87, 156-169.	15.6	155
5	Quantitative Modeling of Arabidopsis Development. Plant Physiology, 2005, 139, 960-968.	4.8	108
6	Accurately measuring human movement using articulated ICP with soft-joint constraints and a repository of articulated models. , 2007, , .		60
7	Predicting changes in knee adduction moment due to load-altering interventions from pressure distribution at the foot in healthy subjects. Journal of Biomechanics, 2008, 41, 2989-2994.	2.1	41
8	Automatic Generation of a Subject-Specific Model for Accurate Markerless Motion Capture and Biomechanical Applications. IEEE Transactions on Biomedical Engineering, 2010, 57, 806-812.	4.2	38
9	Heidelberg colorectal data set for surgical data science in the sensor operating room. Scientific Data, 2021, 8, 101.	5.3	37
10	Prediction of laparoscopic procedure duration using unlabeled, multimodal sensor data. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1089-1095.	2.8	36
11	Meyer's Neldel rule for dark current in charge-coupled devices. Journal of Applied Physics, 2001, 89, 8179-8182.	2.5	35
12	A framework for the functional identification of joint centers using markerless motion capture, validation for the hip joint. Journal of Biomechanics, 2007, 40, 3510-3515.	2.1	30
13	Implicit Visualization and Inverse Modeling of Growing Trees. Computer Graphics Forum, 2004, 23, 351-360.	3.0	20
14	Amplitude and Phasing of Trunk Motion is Critical for the Efficacy of Gait Training Aimed at Reducing Ambulatory Loads at the Knee. Journal of Biomechanical Engineering, 2012, 134, 011010.	1.3	16
15	Most favorable camera configuration for a shape-from-silhouette markerless motion capture system for biomechanical analysis. , 2005, 5665, 278.		15
16	Residual images in charged-coupled device detectors. Review of Scientific Instruments, 2002, 73, 2028-2032.	1.3	13
17	A novel endoimaging system for endoscopic 3D reconstruction in bladder cancer patients. Minimally Invasive Therapy and Allied Technologies, 2022, 31, 34-41.	1.2	10
18	Measuring human movement for biomechanical applications using markerless motion capture. , 2006, 6056, 246.		7

#	ARTICLE	IF	CITATIONS
19	Conditions that influence the accuracy of anthropometric parameter estimation for human body segments using shape-from-silhouette. , 2005, , .		5
20	Classifying smoke in laparoscopic videos using SVM. Current Directions in Biomedical Engineering, 2017, 3, 191-194.	0.4	4
21	Features for detecting smoke in laparoscopic videos. Current Directions in Biomedical Engineering, 2017, 3, 521-524.	0.4	2
22	Service-Oriented Medical Device Connectivity: Particular Standards for Endoscopic Surgery. , 2020, 2020, 5649-5652.		2
23	A Platform and Multisided Market for Translational, Software-Defined Medical Procedures in the Operating Room (OP 4.1): Proof-of-Concept Study. JMIR Medical Informatics, 2022, 10, e27743.	2.6	1