Mark F Hansen

List of Publications by Year
in descending order

20 papers	646 citations	1040056 9 h-index	996975 15 g-index
22 all docs	22 docs citations	22 times ranked	565 citing authors

#	Article	IF	Citations
1	Towards on-farm pig face recognition using convolutional neural networks. Computers in Industry, 2018, 98, 145-152.	9.9	203
2	The quiet revolution in machine vision - a state-of-the-art survey paper, including historical review, perspectives, and future directions. Computers in Industry, 2021, 130, 103472.	9.9	79
3	Early and non-intrusive lameness detection in dairy cows using 3-dimensional video. Biosystems Engineering, 2017, 153, 63-69.	4.3	73
4	A photometric stereo-based 3D imaging system using computer vision and deep learning for tracking plant growth. GigaScience, 2019, 8, .	6.4	62
5	3D face reconstructions from photometric stereo using near infrared and visible light. Computer Vision and Image Understanding, 2010, 114, 942-951.	4.7	53
6	The Photoface database. , 2011, , .		29
7	Innovative 3D and 2D machine vision methods for analysis of plants and crops in the field. Computers in Industry, 2018, 97, 122-131.	9.9	28
8	Multispectral imaging for presymptomatic analysis of light leaf spot in oilseed rape. Plant Methods, 2019, 15, 4.	4.3	28
9	Broad-Leaf Weed Detection in Pasture. , 2018, , .		25
10	Image segmentation of underfloor scenes using a mask regions convolutional neural network with two-stage transfer learning. Automation in Construction, 2020, 113, 103118.	9.8	24
11	Photometric stereo for three-dimensional leaf venation extraction. Computers in Industry, 2018, 98, 56-67.	9.9	13
12	Towards Facial Expression Recognition for On-Farm Welfare Assessment in Pigs. Agriculture (Switzerland), 2021, 11, 847.	3.1	10
13	Towards Machine Vision for Insect Welfare Monitoring and Behavioural Insights. Frontiers in Veterinary Science, 2022, 9, 835529.	2.2	6
14	A efficient and practical 3D face scanner using near infrared and visible photometric stereo. Procedia Computer Science, 2010, 2, 11-19.	2.0	3
15	Baseline face recognition using photometric stereo data. Procedia Computer Science, 2010, 2, 20-25.	2.0	3
16	Biologically inspired 3D face recognition from surface normals. Procedia Computer Science, 2010, 2, 26-34.	2.0	2
17	Long-range concealed object detection through active covert illumination. , 2015, , .		1
18	Vision based Semantic Runway Segmentation from Simulation with Deep Convolutional Neural Networks. , 2022, , .		1

#	Article	IF	Citations
19	Integrating Throttle into a Reinforcement Learning Controller for a Perched Landing of a Variable Sweep Wing UAV. , 2022, , .		1
20	Surface Normals Based Landmarking for 3D Face Recognition Using Photometric Stereo Captures. , 2019, , .		0