Rasmus Nyholm JÃ¸rgensen

List of Publications by Year
in descending order

33 papers	974 citations	516710 16 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	1221 citing authors

#	Article	IF	Citations
1	Designing and Testing a UAV Mapping System for Agricultural Field Surveying. Sensors, 2017, 17, 2703.	3.8	132
2	Automated Detection and Recognition of Wildlife Using Thermal Cameras. Sensors, 2014, 14, 13778-13793.	3.8	106
3	DeepAnomaly: Combining Background Subtraction and Deep Learning for Detecting Obstacles and Anomalies in an Agricultural Field. Sensors, 2016, 16, 1904.	3.8	104
4	Weed Growth Stage Estimator Using Deep Convolutional Neural Networks. Sensors, 2018, 18, 1580.	3.8	68
5	A Novel Spatio-Temporal FCN-LSTM Network for Recognizing Various Crop Types Using Multi-Temporal Radar Images. Remote Sensing, 2019, 11, 990.	4.0	59
6	Monitoring and modeling temperature variations inside silage stacks using novel wireless sensor networks. Computers and Electronics in Agriculture, 2009, 69, 149-157.	7.7	57
7	FieldSAFE: Dataset for Obstacle Detection in Agriculture. Sensors, 2017, 17, 2579.	3.8	52
8	Using Deep Learning to Challenge Safety Standard for Highly Autonomous Machines in Agriculture. Journal of Imaging, 2016, 2, 6.	3.0	48
9	N2O emission immediately after rainfall in a dry stubble field. Soil Biology and Biochemistry, 1998, 30, 545-546.	8.8	41
10	Towards an Open Software Platform for Field Robots in Precision Agriculture. Robotics, 2014, 3, 207-234.	3.5	35
11	Estimation of the Botanical Composition of Clover-Grass Leys from RGB Images Using Data Simulation and Fully Convolutional Neural Networks. Sensors, 2017, 17, 2930.	3.8	31
12	Open Plant Phenotype Database of Common Weeds in Denmark. Remote Sensing, 2020, 12, 1246.	4.0	31
13	Performance evaluation of a crop/weed discriminating microsprayer. Computers and Electronics in Agriculture, 2011, 77, 35-40.	7.7	29
14	Generating artificial images of plant seedlings using generative adversarial networks. Biosystems Engineering, 2019, 187, 147-159.	4.3	26
15	Dicotyledon Weed Quantification Algorithm for Selective Herbicide Application in Maize Crops. Sensors, 2016, 16, 1848.	3.8	19
16	Estimating the plant stem emerging points (PSEPs) of sugar beets at early growth stages. Biosystems Engineering, 2012, 111, 83-90.	4.3	17
17	Siteâ€specific weed managementâ€”constraints and opportunities for the weed research community: Insights from a workshop. Weed Research, 2021, 61, 147-153.	1.7	17
18	Seedling Discrimination with Shape Features Derived from a Distance Transform. Sensors, 2013, 13, 5585-5602.	3.8	16

#	Article	IF	Citations
19	Multi-Modal Detection and Mapping of Static and Dynamic Obstacles in Agriculture for Process Evaluation. Frontiers in Robotics and AI, 2018, 5, 28.	3.2	11
20	Field-scale and laboratory study of factors affecting N 2 O emissions from a rye stubble field on sandy loam soil. Biology and Fertility of Soils, 1997, 25, 366-371.	4.3	9
21	Statistics-based segmentation using a continuous-scale naive Bayes approach. Computers and Electronics in Agriculture, 2014, 109, 271-277.	7.7	8
22	Preliminary Results of Clover and Grass Coverage and Total Dry Matter Estimation in Clover-Grass Crops Using Image Analysis. Journal of Imaging, 2017, 3, 59.	3.0	8
23	Development of pixel-wise U-Net model to assess performance of cereal sowing. Biosystems Engineering, 2021, 208, 260-271.	4.3	8
24	Robust Species Distribution Mapping of Crop Mixtures Using Color Images and Convolutional Neural Networks. Sensors, 2021, 21, 175.	3.8	8
25	Robotic Design Choice Overview Using Co-Simulation and Design Space Exploration. Robotics, 2015, 4, 398-420.	3.5	6
26	Novel Assessment of Region-Based CNNs for Detecting Monocot/Dicot Weeds in Dense Field Environments. Agronomy, 2022, 12, 1167.	3.0	6
27	A Novel Locating System for Cereal Plant Stem Emerging Pointsâ€™ Detection Using a Convolutional Neural Network. Sensors, 2018, 18, 1611.	3.8	5
28	Weed Classification Using Explainable Multi-Resolution Slot Attention. Sensors, 2021, 21, 6705.	3.8	5
29	Preprocessed Sentinel-1 Data via a Web Service Focused on Agricultural Field Monitoring. IEEE Access, 2019, 7, 65139-65149.	4.2	4
30	Disentangling Information in Artificial Images of Plant Seedlings Using Semi-Supervised GAN. Remote Sensing, 2019, 11, 2671.	4.0	3
31	Crop Type Classification based on Machine Learning with Multitemporal Sentinel-1 Data. , 2020, , .		3
32	Sparse-to-Dense Depth Completion in Precision Farming. , 2019, , .		2
33	Initial evaluation of enriching satellite imagery using sparse proximal sensing in precision farming. , 2020, , .		0