Esmaeil S Nadimi

List of Publications by Year
in descending order

61	1,193	471371	395590
61	**1,193**	**17**	**33**
papers	citations	h-index	g-index

61	61	61	1317
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Site‐specific weed control technologies. Weed Research, 2009, 49, 233-241.	0.8	168
2	Monitoring and classifying animal behavior using ZigBee-based mobile ad hoc wireless sensor networks and artificial neural networks. Computers and Electronics in Agriculture, 2012, 82, 44-54.	3.7	114
3	ZigBee-based wireless sensor networks for monitoring animal presence and pasture time in a strip of new grass. Computers and Electronics in Agriculture, 2008, 61, 79-87.	3.7	90
4	ZigBee-based wireless sensor networks for classifying the behaviour of a herd of animals using classification trees. Biosystems Engineering, 2008, 100, 167-176.	1.9	70
5	Addressing priority challenges in the detection and assessment of colorectal polyps from capsule endoscopy and colonoscopy in colorectal cancer screening using machine learning. Acta Oncológica, 2019, 58, S29-S36.	0.8	65
6	Dairy cow defecation and urination frequency and spatial distribution in relation to time-limited grazing. Livestock Science, 2008, 113, 62-73.	0.6	61
7	Monitoring and modeling temperature variations inside silage stacks using novel wireless sensor networks. Computers and Electronics in Agriculture, 2009, 69, 149-157.	3.7	57
8	Residential exposure to outdoor air pollution from livestock operations and perceived annoyance among citizens. Environment International, 2012, 40, 44-50.	4.8	53
9	Modelling surface pH and emissions of hydrogen sulphide, ammonia, acetic acid and carbon dioxide from a pig waste lagoon. Biosystems Engineering, 2009, 104, 510-521.	1.9	41
10	Bayesian state prediction of wind turbine bearing failure. Renewable Energy, 2018, 116, 164-172.	4.3	40
11	Application of deep learning for autonomous detection and localization of colorectal polyps in wireless colon capsule endoscopy. Computers and Electrical Engineering, 2020, 81, 106531.	3.0	39
12	Perceived annoyance from environmental odors and association with atmospheric ammonia levels in non-urban residential communities: a cross-sectional study. Environmental Health, 2012, 11, 27.	1.7	36
13	Emissions of NH3, CO2 and H2S during swine wastewater management: Characterization of transient emissions after air-liquid interface disturbances. Atmospheric Environment, 2012, 54, 408-418.	1.9	36
14	Observer Kalman filter identification and multiple-model adaptive estimation technique for classifying animal behaviour using wireless sensor networks. Computers and Electronics in Agriculture, 2009, 68, 9-17.	3.7	29
15	Chronic exposure to odorous chemicals in residential areas and effects on human psychosocial health: Dose‐response relationships. Science of the Total Environment, 2014, 490, 545-554.	3.9	20
16	Assessment of bowel cleansing quality in colon capsule endoscopy using machine learning: a pilot study. Endoscopy International Open, 2018, 06, E1044-E1050.	0.9	20
17	Wind turbine performance analysis based on multivariate higher order moments and Bayesian classifiers. Control Engineering Practice, 2016, 49, 204-211.	3.2	18
18	Energy generation for an ad hoc wireless sensor network-based monitoring system using animal head movement. Computers and Electronics in Agriculture, 2011, 75, 238-242.	3.7	16

#	Article	IF	Citations
19	A comprehensive model to estimate the simultaneous release of acidic and basic gaseous pollutants from swine slurry under different scenarios. Chemistry and Ecology, 2010, 26, 425-444.	0.6	15
20	Hammerstein-Wiener model for the prediction of temperature variations inside silage stack-bales using wireless sensor networks. Biosystems Engineering, 2012, 112, 236-247.	1.9	15
21	The dynamics of ammonia release from animal wastewater as influenced by the release of dissolved carbon dioxide and gas bubbles. Atmospheric Environment, 2011, 45, 5110-5118.	1.9	14
22	Feature Point Tracking-Based Localization of Colon Capsule Endoscope. Diagnostics, 2021, 11, 193.	1.3	14
23	Capsule endoscopy vs. colonoscopy vs. histopathology in colorectal cancer screening: matched analyses of polyp size, morphology, and location estimates. International Journal of Colorectal Disease, 2018, 33, 1309-1312.	1.0	13
24	A novel approach for exposure assessment in air pollution epidemiological studies using neuro-fuzzy inference systems: Comparison of exposure estimates and exposure-health associations. Environmental Research, 2017, 154, 196-203.	3.7	11
25	Bayesian Source Localization in Networks with Heterogeneous Transmission Medium. Navigation, Journal of the Institute of Navigation, 2012, 59, 163-175.	1.7	9
26	On the ratio of independent complex Gaussian random variables. Multidimensional Systems and Signal Processing, 2018, 29, 1553-1561.	1.7	9
27	*In vivo* and *in situ* measurement and modelling of intra–body effective complex permittivity. Healthcare Technology Letters, 2015, 2, 135-140.	1.9	8
28	Assessment of Early Stopping through Statistical Health Prognostic Models for Empirical RUL Estimation in Wind Turbine Main Bearing Failure Monitoring. Energies, 2020, 13, 83.	1.6	8
29	An Innovative Polyp Detection Method from Colon Capsule Endoscopy Images Based on A Novel Combination of RCNN and DRLSE. , 2020, , .		7
30	Video-based eye tracking performance for computer-assisted diagnostic support of diabetic neuropathy. Artificial Intelligence in Medicine, 2021, 114, 102050.	3.8	7
31	The Effect on Wireless Sensor Communication When Deployed in Biomass. Sensors, 2011, 11, 8295-8308.	2.1	6
32	A Novel Probabilistic Long-Term Fault Prediction Framework Beyond SCADA Data - With Applications in Main Bearing Failure. Journal of Physics: Conference Series, 2019, 1222, 012043.	0.3	6
33	Estimating the Remaining Power Generation of Wind Turbines—An Exploratory Study for Main Bearing Failures. Energies, 2020, 13, 3406.	1.6	6
34	Non-invasive detection of diabetic complications via pattern analysis of temporal facial colour variations. Computer Methods and Programs in Biomedicine, 2020, 196, 105619.	2.6	6
35	Development and field test of an on-line computerized instrumentation system for air velocity, temperature and differential pressure measurements in poultry houses. Spanish Journal of Agricultural Research, 2010, 8, 570.	0.3	6
36	AN ADAPTIVE PATH LOSS CHANNEL MODEL FOR WAVE PROPAGATION IN MULTILAYER TRANSMISSION MEDIUM. Progress in Electromagnetics Research, 2015, 150, 1-12.	1.6	5

#	Article	IF	Citations
37	Model predictive controller combined with LQG controller and velocity feedback to control the stewart platform. , 0, , .		4
38	Bayesian-based localization of wireless capsule endoscope using received signal strength. , 2014, 2014, 5988-91.		4
39	An adaptive localization technique for wireless capsule endoscopy. , 2016, , .		4
40	Dependency in State Transitions of Wind Turbines—Inference on Model Residuals for State Abstractions. IEEE Transactions on Industrial Electronics, 2017, 64, 4836-4845.	5.2	4
41	Invisible Color Variations of Facial Erythema: A Novel Early Marker for Diabetic Complications?. Journal of Diabetes Research, 2019, 2019, 1-7.	1.0	4
42	Monitoring and classifying the behavior of a herd of sheep using ad hoc wireless sensor networks and artificial intelligence. , 2009, , .		3
43	Localization of mobile nodes based on inaccurate round-trip-time measurements using Bayesian inference. , 2011, , .		3
44	Power grid modelling from wind turbine perspective using principal component analysis. , 2015, , .		3
45	Statistical modeling of the power grid from a wind farm standpoint. Electric Power Systems Research, 2017, 144, 150-156.	2.1	3
46	A testing procedure for wind turbine generators based on the power grid statistical model. Renewable Energy, 2018, 116, 136-144.	4.3	3
47	Facial erythema detects diabetic neuropathy using the fusion of machine learning, random matrix theory and self organized criticality. Scientific Reports, 2020, 10, 16785.	1.6	3
48	A locally-processed light-weight deep neural network for detecting colorectal polyps in wireless capsule endoscopes. Journal of Real-Time Image Processing, 2021, 18, 1183-1194.	2.2	3
49	Adaptive intra-body channel modeling of attenuation coefficient using transmission line theory. , 2015, , .		2
50	Machine learning-based colorectal cancer detection. , 2018, , .		2
51	Semidefinite programming-based localization algorithm in networks with inhomogeneous media. , 2012, , .		2
52	Accelerating FPGA-Implementations for Mobile Medical Devices with high-level AI libraries: an Object Detection Model for Colorectal Polyp Images. , 2021, , .		2
53	Designing, modeling and controlling a novel autonomous laser weeding system. , 2009, , .		1
54	Residential Exposure to Outdoor Air Pollution from Livestock Operations and Perceived Annoyance among Citizens. , 2012, , .		1

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55	Bayesian-based localization in inhomogeneous transmission media. , 2013, , .		1
56	Thickness estimation of the subcutaneous fat using coaxial probe. Healthcare Technology Letters, 2016, 3, 85-91.	1.9	1
57	Texture classification from single uncalibrated images: Random matrix theory approach. , 2017, , .		1
58	Dimensionality reduction by bayesian eigenvalue-analysis for state prediction in large sensor systems. , 2018, , .		1
59	Semi-definite programming-based localization algorithm in networks with inhomogeneous transmission medium. , 2015, , .		0
60	Statistical modeling of grid voltage fluctuations at wind turbine generator output by extreme value analysis. , 2016, , .		0
61	Upper bound performance of semi-definite programming for localisation in inhomogeneous media. , 2017, , .		0