

# Ibrahim A Hameed

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

2,997  
citations

201385

27  
h-index

197535

49  
g-index

129  
all docs

129  
docs citations

129  
times ranked

1963  
citing authors

#	ARTICLE	IF	CITATIONS
1	Research and development in agricultural robotics: A perspective of digital farming. International Journal of Agricultural and Biological Engineering, 2018, 11, 1-11.	0.3	190
2	A Survey on Machine Learning Techniques for Cyber Security in the Last Decade. IEEE Access, 2020, 8, 222310-222354.	2.6	187
3	Advances in greenhouse automation and controlled environment agriculture: A transition to plant factories and urban agriculture. International Journal of Agricultural and Biological Engineering, 2018, 11, 1-22.	0.3	172
4	Performance Comparison and Current Challenges of Using Machine Learning Techniques in Cybersecurity. Energies, 2020, 13, 2509.	1.6	137
5	Drone Deep Reinforcement Learning: A Review. Electronics (Switzerland), 2021, 10, 999.	1.8	120
6	A Review of Content-Based and Context-Based Recommendation Systems. International Journal of Emerging Technologies in Learning, 2021, 16, 274.	0.8	117
7	Intelligent Coverage Path Planning for Agricultural Robots and Autonomous Machines on Three-Dimensional Terrain. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 965-983.	2.0	100
8	A Comparative Performance Analysis of Data Resampling Methods on Imbalance Medical Data. IEEE Access, 2021, 9, 109960-109975.	2.6	93
9	A Bibliometric Analysis of Corona Pandemic in Social Sciences: A Review of Influential Aspects and Conceptual Structure. IEEE Access, 2020, 8, 133377-133402.	2.6	81
10	Side-to-side 3D coverage path planning approach for agricultural robots to minimize skip/overlap areas between swaths. Robotics and Autonomous Systems, 2016, 76, 36-45.	3.0	78
11	An Investigation of Credit Card Default Prediction in the Imbalanced Datasets. IEEE Access, 2020, 8, 201173-201198.	2.6	78
12	Using Gaussian membership functions for improving the reliability and robustness of students' evaluation systems. Expert Systems With Applications, 2011, 38, 7135-7142.	4.4	72
13	Robotics and Intelligent Systems Against a Pandemic. Acta Polytechnica Hungarica, 2021, 18, 13-35.	2.5	72
14	Automatic Visual Features for Writer Identification: A Deep Learning Approach. IEEE Access, 2019, 7, 17149-17157.	2.6	68
15	An Optimized Field Coverage Planning Approach for Navigation of Agricultural Robots in Fields Involving Obstacle Areas. International Journal of Advanced Robotic Systems, 2013, 10, 231.	1.3	66
16	Automated generation of guidance lines for operational field planning. Biosystems Engineering, 2010, 107, 294-306.	1.9	60
17	A fuzzy system for evaluating students' learning achievement. Expert Systems With Applications, 2009, 36, 6236-6243.	4.4	59
18	Driving Angle and Track Sequence Optimization for Operational Path Planning Using Genetic Algorithms. Applied Engineering in Agriculture, 2011, 27, 1077-1086.	0.3	51

#	ARTICLE	IF	CITATIONS
19	What is Core and What Future Holds for Blockchain Technologies and Cryptocurrencies: A Bibliometric Analysis. IEEE Access, 2021, 9, 989-1004.	2.6	41
20	A novel framework for prognostic factors identification of malignant mesothelioma through association rule mining. Biomedical Signal Processing and Control, 2021, 68, 102726.	3.5	41
21	Using Theatre to Study Interaction with Care Robots. International Journal of Social Robotics, 2016, 8, 457-470.	3.1	36
22	Optimized driving direction based on a three-dimensional field representation. Computers and Electronics in Agriculture, 2013, 91, 145-153.	3.7	35
23	An object-oriented model for simulating agricultural in-field machinery activities. Computers and Electronics in Agriculture, 2012, 81, 24-32.	3.7	33
24	A GA-Based Adaptive Neuro-Fuzzy Controller for Greenhouse Climate Control System. AEJ - Alexandria Engineering Journal, 2018, 57, 773-779.	3.4	33
25	A Review of Time-Series Anomaly Detection Techniques: A Step to Future Perspectives. Advances in Intelligent Systems and Computing, 2021, , 865-877.	0.5	33
26	EEMDS: An Effective Emergency Message Dissemination Scheme for Urban VANETs. Sensors, 2021, 21, 1588.	2.1	31
27	Tramline establishment in controlled traffic farming based on operational machinery cost. Biosystems Engineering, 2010, 107, 221-231.	1.9	29
28	A survey on sentiment analysis in Urdu: A resource-poor language. Egyptian Informatics Journal, 2021, 22, 53-74.	4.4	28
29	A Machine Learning Approach for Identification of Malignant Mesothelioma Etiological Factors in an Imbalanced Dataset. Computer Journal, 2022, 65, 1740-1751.	1.5	28
30	Coverage path planning software for autonomous robotic lawn mower using Dubins' curve. , 2017, , .		27
31	Developing the modified R-numbers for risk-based fuzzy information fusion and its application to failure modes, effects, and system resilience analysis (FMESRA). ISA Transactions, 2021, 113, 9-27.	3.1	27
32	V2X-Based Mobile Localization in 3D Wireless Sensor Network. Security and Communication Networks, 2021, 2021, 1-13.	1.0	27
33	A Novel Method for Performance Measurement of Public Educational Institutions Using Machine Learning Models. Applied Sciences (Switzerland), 2021, 11, 9296.	1.3	27
34	A Dynamic Three-Bit Image Steganography Algorithm for Medical and e-Healthcare Systems. IEEE Access, 2020, 8, 181893-181903.	2.6	25
35	Litter Detection with Deep Learning: A Comparative Study. Sensors, 2022, 22, 548.	2.1	25
36	Hybrid Words Representation for Airlines Sentiment Analysis. Lecture Notes in Computer Science, 2019, , 381-392.	1.0	24

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37	Computer-Aided Diagnosis of Coal Workersâ€™ Pneumoconiosis in Chest X-ray Radiographs Using Machine Learning: A Systematic Literature Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6439.	1.2	24
38	Comparative predictive modelling of the occurrence of faecal indicator bacteria in a drinking water source in Norway. <i>Science of the Total Environment</i> , 2018, 628-629, 1178-1190.	3.9	23
39	Trends and Directions of Financial Technology (Fintech) in Society and Environment: A Bibliometric Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10353.	1.3	20
40	Enhanced concept-level sentiment analysis system with expanded ontological relations for efficient classification of user reviews. <i>Egyptian Informatics Journal</i> , 2021, 22, 455-471.	4.4	19
41	Applying Deep Learning Technique for Depression Classification in Social Media Text. <i>Journal of Medical Imaging and Health Informatics</i> , 2020, 10, 2446-2451.	0.2	19
42	Grey wolf optimizer (GWO) for automated offshore crane design. , 2016, , .		18
43	Health Monitoring of Air Compressors Using Reconstruction-Based Deep Learning for Anomaly Detection with Increased Transparency. <i>Entropy</i> , 2021, 23, 83.	1.1	18
44	Using natural language processing (NLP) for designing socially intelligent robots. , 2016, , .		17
45	Robust Sparse Representation and Multiclass Support Matrix Machines for the Classification of Motor Imagery EEG Signals. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2019, 7, 1-8.	2.2	16
46	Fundamental Research on Unmanned Aerial Vehicles to Support Precision Agriculture in Oil Palm Plantations. , 0, , .		16
47	Fine-Grained Sentiment Analysis for Measuring Customer Satisfaction Using an Extended Set of Fuzzy Linguistic Hedges. <i>International Journal of Computational Intelligence Systems</i> , 2020, 13, 744.	1.6	16
48	Simplified architecture of a type-2 fuzzy controller using four embedded type-1 fuzzy controllers and its application to a greenhouse climate control system. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2009, 223, 619-631.	0.7	15
49	Robotic Harvesting of Fruiting Vegetables: A Simulation Approach in V-REP, ROS and MATLAB. , 0, , .		15
50	A comprehensive dataset for bibliometric analysis of SARS and coronavirus impact on social sciences. <i>Data in Brief</i> , 2020, 33, 106520.	0.5	15
51	Simulation software and virtual environments for acceleration of agricultural robotics: Features highlights and performance comparison. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 12-20.	0.3	15
52	A Review on Security Challenges in Internet of Things (IoT). , 2021, , .		14
53	Evaluation of Handwritten Urdu Text by Integration of MNIST Dataset Learning Experience. <i>IEEE Access</i> , 2019, 7, 153566-153578.	2.6	13
54	Robust H-Infinity Decentralized Control for Industrial Cooperative Robots. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 254-265.	0.5	13

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55	Environmental control for plants using intelligent control systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 101-106.	0.4	12
56	A Computer System to Rate the Variety of Color in Drawings. Art Therapy, 2009, 26, 73-79.	0.2	12
57	Transfer Learning for Prognostics and Health Management (PHM) of Marine Air Compressors. Journal of Marine Science and Engineering, 2021, 9, 47.	1.2	12
58	A Comprehensive Study of HBase Storage Architectureâ€”A Systematic Literature Review. Symmetry, 2021, 13, 109.	1.1	12
59	Regularized Urdu Speech Recognition with Semi-Supervised Deep Learning. Applied Sciences (Switzerland), 2019, 9, 1956.	1.3	11
60	Risk Factors Identification of Malignant Mesothelioma: A Data Mining Based Approach. , 2020, , .		11
61	Robotic weed monitoring. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2011, 61, 202-208.	0.3	10
62	Multi-Agent Robot System to Monitor and Enforce Physical Distancing Constraints in Large Areas to Combat COVID-19 and Future Pandemics. Applied Sciences (Switzerland), 2021, 11, 7200.	1.3	10
63	Motion planning for autonomous landmine detection and clearance robots. , 2016, , .		9
64	Improved Twofish Algorithm: A Digital Image Enciphering Application. IEEE Access, 2021, 9, 76518-76530.	2.6	9
65	A More Energy Efficient Controller for the Greenhouses Climate Control System. Applied Engineering in Agriculture, 2010, 26, 491-498.	0.3	8
66	Field Robotics in Sports: Automatic Generation of Guidance Lines for Automatic Grass Cutting, Striping and Pitch Marking of Football Playing Fields. International Journal of Advanced Robotic Systems, 2011, 8, 10.	1.3	8
67	Nonlinear Model Predictive Growth Control of a Class of Plant-Inspired Soft Growing Robots. IEEE Access, 2020, 8, 214495-214503.	2.6	8
68	Greenhouse Automation Using Wireless Sensors and IoT Instruments Integrated with Artificial Intelligence. , 0, , .		8
69	A Model to Enhance Governance Issues through Opinion Extraction. , 2020, , .		8
70	Predicting annual illuminance and operative temperature in residential buildings using artificial neural networks. Building and Environment, 2022, 217, 109031.	3.0	8
71	Fuzzy Systems in Education: A More Reliable System for Student Evaluation. , 2010, , .		7
72	A Coverage Planner for Multi-Robot Systems in Agriculture. , 2018, , .		7

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73	Intelligent Computer-Automated Crane Design Using An Online Crane Prototyping Tool. , 2016, , .		7
74	Enhanced fuzzy system for student's academic evaluation using linguistic hedges. , 2017, , .		6
75	BERS: Bussiness-Related Emotion Recognition System in Urdu Language Using Machine Learning. , 2018, , .		6
76	ACOR Algorithm's Efficiency for Electromagnetic Optimization Benchmark Problems. , 2019, , .		6
77	A Software Framework For Intelligent Computer-Automated Product Design. , 2016, , .		6
78	Detecting Small Anatomical Structures in 3D Knee MRI Segmentation by Fully Convolutional Networks. Applied Sciences (Switzerland), 2022, 12, 283.	1.3	6
79	Towards a Social VR-based Exergame for Elderly Users: An Exploratory Study of Acceptance, Experiences and Design Principles. Lecture Notes in Computer Science, 2022, , 495-504.	1.0	6
80	Adaptive neuro-fuzzy inference system for predicting norovirus in drinking water supply. , 2017, , .		5
81	User Intention Mining in Bussiness Reviews: A Review. , 2018, , .		5
82	Path Planning in Dynamic Environment Using Particle Swarm Optimization Algorithm. , 2019, , .		5
83	An Interval Type-2 Fuzzy Logic System for Assessment of Students' Answer Scripts under High Levels of Uncertainty. , 2016, , .		5
84	Task and motion planning for selective weed conrol using a team of autonomous vehicles. , 2014, , .		4
85	Automated techniques for brain tumor segmentation and detection: A review study. , 2017, , .		4
86	Random forest tree for predicting fecal indicator organisms in drinking water supply. , 2017, , .		4
87	A Fuzzy System to Automatically Evaluate and Improve Fariness of Multiple-Choice Questions (MCQs) based Exams. , 2016, , .		4
88	Learning the Morphological and Syntactic Grammars for Named Entity Recognition. Information (Switzerland), 2022, 13, 49.	1.7	4
89	Design of a Wildlife Avoidance Planning System for Autonomous Harvesting Operations. International Journal of Advanced Robotic Systems, 2014, 11, 6.	1.3	3
90	Towards data-driven identification and analysis of propeller ventilation. , 2016, , .		3

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91	A simplified implementation of interval type-2 fuzzy system and its application in students' academic evaluation. , 2016, , .		3
92	Deep learning based classification for healthcare data analysis system. , 2017, , .		3
93	MAC Protocols 802.11: A Comparative Study of Throughput Analysis and Improved LEACH. , 2020, , .		3
94	An Analysis of Blessed Friday Sale at a Retail Store Using Classification Models. , 2021, , .		3
95	Greenhouse Crop Simulation Models and Microclimate Control Systems, A Review. , 0, , .		3
96	Domain Specific Lexicon Generation through Sentiment Analysis. International Journal of Emerging Technologies in Learning, 2020, 15, 190.	0.8	3
97	Reconfigurable adaptive fuzzy fault-hiding control for greenhouse climate control system. International Journal of Automation and Control, 2017, 11, 164.	0.3	3
98	Cloud-based Smart IoT Sustainable Solution for Waste Sorting and Management. , 2022, , .		3
99	Parameterization of a Novel Nonlinear Estimator for Uncertain SISO Systems with Noise Scenario. Mathematics, 2022, 10, 2261.	1.1	3
100	A Mixed Integer Programming Model for the Multiperiod Scheduling Problem of Blending Zinc-Bearing Materials to Minimize Setups in the Hydrometallurgical Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 896-904.	1.0	2
101	Comparison of Adaptive Neuro-Fuzzy Inference System (ANFIS) and Gaussian Process for Machine Learning (GPML) Algorithms for the Prediction of Norovirus Concentration in Drinking Water Supply. Lecture Notes in Computer Science, 2017, , 74-95.	1.0	2
102	Temperature and Humidity Control for the Next Generation Greenhouses: Overview of Desiccant and Evaporative Cooling Systems. , 0, , .		2
103	A Conceptual Model Of An IOT-Based Smart And Sustainable Solid Waste Management System: A case Study Of A Norwegian Municipality. , 2020, , .		2
104	An Intelligent Winch Prototyping Tool. , 2017, , .		2
105	Evolutionary Winch Design Using An Online Winch Prototyping Tool. , 2017, , .		2
106	R.Graph: A new risk-based causal reasoning and its application to COVID-19 risk analysis. Chemical Engineering Research and Design, 2022, 159, 585-604.	2.7	2
107	Path Planning for Line Marking Robots Using 2D Dubinsâ€™ Path. Advances in Intelligent Systems and Computing, 2017, , 900-910.	0.5	1
108	Development of a Field Robot Platform for Mechanical Weed Control in Greenhouse Cultivation of Cucumber. , 0, , .		1

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109	Health Data Management for Nursing Practice: An Intelligent, Holographic Mixed-Reality System. Communications in Computer and Information Science, 2021, , 329-336.	0.4	1
110	Multi-Agent System Based Mobile Help Desk and Monitoring of Safety Measures to Combat COVID-19 and Future Pandemics. , 2021, , .		1
111	Smart Waste Management System as a Sustainable Social Enterprise Model. , 2021, , .		1
112	A Novel Ensemble Representation Framework for Sentiment Classification. , 2020, , .		1
113	Machine Translation in Low-Resource Languages by an Adversarial Neural Network. Applied Sciences (Switzerland), 2021, 11, 10860.	1.3	1
114	Perceiving the Narrative Style for Fake News Detection Using Deep Learning. , 2021, , .		1
115	Design of research platform for integrating ICT and automation in organic arable cropping. , 2010, , .		0
116	Soil Erosion Rate Prediction using Adaptive Neuro-Fuzzy Inference System (ANFIS) and Geographic Information System (GIS) of Wadi Sahel-Soummam Watershed (Algeria). , 2019, , .		0
117	COGNITIVE REHABILITATION FOR THE ELDERLY USING SOCIAL ROBOTS: A BRIEF REVIEW. , 2019, , .		0
118	âœœCPS-NAOâœœ NURTURING THINKING CHILDREN USING A SOCIAL ROBOT. , 2019, , .		0
119	ACO Algorithms to Solve an Electromagnetic Discrete Optimization Problem. , 2020, , .		0
120	Digital Agriculture and Intelligent Farming Business Using Information and Communication Technology: A Survey. , 0, , .		0