Yunyoung Nam

List of Publications by Year
in descending order

120 papers	3,043 citations	147801 31 h-index	197818 49 g-index
121 all docs	121 docs citations	121 times ranked	3168 citing authors

#	Article	IF	Citations
1	Underwater Wireless Sensor Networks: A Review of Recent Issues and Challenges. Wireless Communications and Mobile Computing, 2019, 2019, 1-20.	1.2	224
2	Wearable IoT Smart-Log Patch: An Edge Computing-Based Bayesian Deep Learning Network System for Multi Access Physical Monitoring System. Sensors, 2019, 19, 3030.	3.8	172
3	Computer-Aided Gastrointestinal Diseases Analysis From Wireless Capsule Endoscopy: A Framework of Best Features Selection. IEEE Access, 2020, 8, 132850-132859.	4.2	104
4	Gold-Coated Microelectrode Array With Thiol Linked Self-Assembled Monolayers for Engineering Neuronal Cultures. IEEE Transactions on Biomedical Engineering, 2004, 51, 158-165.	4.2	84
5	Time-Varying Coherence Function for Atrial Fibrillation Detection. IEEE Transactions on Biomedical Engineering, 2013, 60, 2783-2793.	4.2	84
6	Sleep Monitoring Based on a Tri-Axial Accelerometer and a Pressure Sensor. Sensors, 2016, 16, 750.	3.8	82
7	Estimation of Respiratory Rates Using the Built-in Microphone of a Smartphone or Headset. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1493-1501.	6.3	82
8	Monitoring of Heart and Breathing Rates Using Dual Cameras on a Smartphone. PLoS ONE, 2016, 11, e0151013.	2.5	79
9	Tidal Volume and Instantaneous Respiration Rate Estimation using a Volumetric Surrogate Signal Acquired via a Smartphone Camera. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 764-777.	6.3	73
10	Child Activity Recognition Based on Cooperative Fusion Model of a Triaxial Accelerometer and a Barometric Pressure Sensor. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 420-426.	6.3	72
11	Lightweight Authenticated-Encryption Scheme for Internet of Things Based on Publish-Subscribe Communication. IEEE Access, 2020, 8, 60539-60551.	4.2	71
12	Utilizing venation features for efficient leaf image retrieval. Journal of Systems and Software, 2008, 81, 71-82.	4.5	65
13	Intelligent Vision-Based Malware Detection and Classification Using Deep Random Forest Paradigm. IEEE Access, 2020, 8, 206303-206324.	4.2	65
14	Blockchain-Based Secure Healthcare Application for Diabetic-Cardio Disease Prediction in Fog Computing. IEEE Access, 2021, 9, 45706-45720.	4.2	65
15	A similarity-based leaf image retrieval scheme: Joining shape and venation features. Computer Vision and Image Understanding, 2008, 110, 245-259.	4.7	62
16	A Secure, Energy- and SLA-Efficient (SESE) E-Healthcare Framework for Quickest Data Transmission Using Cyber-Physical System. Sensors, 2019, 19, 2119.	3.8	62
17	Respiratory Rate Estimation from the Built-in Cameras of Smartphones and Tablets. Annals of Biomedical Engineering, 2014, 42, 885-898.	2.5	56
18	A Digital DNA Sequencing Engine for Ransomware Detection Using Machine Learning. IEEE Access, 2020, 8, 119710-119719.	4.2	54

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19	Moth Flame Clustering Algorithm for Internet of Vehicle (MFCA-IoV). IEEE Access, 2019, 7, 11613-11629.	4.2	52
20	Optimized Node Clustering in VANETs by Using Meta-Heuristic Algorithms. Electronics (Switzerland), 2020, 9, 394.	3.1	48
21	Patterning to enhance activity of cultured neuronal networks. IET Nanobiotechnology, 2004, 151, 109.	2.1	42
22	Analysis of Machine Learning-Based Assessment for Elbow Spasticity Using Inertial Sensors. Sensors, 2020, 20, 1622.	3.8	42
23	Analysis of Lightweight Encryption Scheme for Fog-to-Things Communication. IEEE Access, 2018, 6, 26820-26830.	4.2	40
24	Energy and Delay Aware Data Aggregation in Routing Protocol for Internet of Things. Sensors, 2019, 19, 5486.	3.8	39
25	Underwater Networked Wireless Sensor Data Collection for Computational Intelligence Techniques: Issues, Challenges, and Approaches. IEEE Access, 2020, 8, 122959-122974.	4.2	39
26	Intelligent video surveillance system: 3-tier context-aware surveillance system with metadata. Multimedia Tools and Applications, 2012, 57, 315-334.	3.9	37
27	Vehicle classification based on images from visible light and thermal cameras. Eurasip Journal on Image and Video Processing, 2018, 2018, .	2.6	37
28	Optimal Portfolio Management for Engineering Problems Using Nonconvex Cardinality Constraint: A Computing Perspective. IEEE Access, 2020, 8, 57437-57450.	4.2	37
29	Effects of Chemical Species and Nonlinear Thermal Radiation with 3D Maxwell Nanofluid Flow with Double Stratificationâ€"An Analytical Solution. Entropy, 2020, 22, 453.	2.2	37
30	A Neuro-fuzzy approach for user behaviour classification and prediction. Journal of Cloud Computing: Advances, Systems and Applications, 2019, 8, .	3.9	36
31	Multi-Disease Classification Model Using Strassenâ€™s Half of Threshold (SHoT) Training Algorithm in Healthcare Sector. IEEE Access, 2021, 9, 112624-112636.	4.2	36
32	Radiative MHD Nanofluid Flow over a Moving Thin Needle with Entropy Generation in a Porous Medium with Dust Particles and Hall Current. Entropy, 2020, 22, 354.	2.2	34
33	Control Framework for Trajectory Planning of Soft Manipulator Using Optimized RRT Algorithm. IEEE Access, 2020, 8, 171730-171743.	4.2	30
34	Expert Hypertension Detection System Featuring Pulse Plethysmograph Signals and Hybrid Feature Selection and Reduction Scheme. Sensors, 2021, 21, 247.	3.8	29
35	Physical activity recognition using multiple sensors embedded in a wearable device. Transactions on Embedded Computing Systems, 2013, 12, 1-14.	2.9	27
36	Numerical Simulation of 3D Condensation Nanofluid Film Flow with Carbon Nanotubes on an Inclined Rotating Disk. Applied Sciences (Switzerland), 2020, 10, 168.	2.5	27

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37	Automated System for Identifying COVID-19 Infections in Computed Tomography Images Using Deep Learning Models. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	27
38	A Comparative Evaluation of Atrial Fibrillation Detection Methods in Koreans Based on Optical Recordings Using a Smartphone. IEEE Access, 2017, 5, 11437-11443.	4.2	26
39	Adaptive Node Clustering Technique for Smart Ocean Under Water Sensor Network (SOSNET). Sensors, 2019, 19, 1145.	3.8	26
40	Impact of Second-Order Slip and Double Stratification Coatings on 3D MHD Williamson Nanofluid Flow with Cattaneoâ€"Christov Heat Flux. Coatings, 2019, 9, 849.	2.6	25
41	Development of a yoga posture coaching system using an interactive display based on transfer learning. Journal of Supercomputing, 2022, 78, 5269-5284.	3.6	25
42	Respiratory rate derived from smartphone-camera-acquired pulse photoplethysmographic signals. Physiological Measurement, 2015, 36, 2317-2333.	2.1	23
43	A novel model to analyze Darcy Forchheimer nanofluid flow in a permeable medium with Entropy generation analysis. Journal of Taibah University for Science, 2020, 14, 916-930.	2.5	23
44	Modified Cascade Controller Design for Unstable Processes With Large Dead Time. IEEE Access, 2020, 8, 157022-157036.	4.2	23
45	Numerical Study for the Effects of Temperature Dependent Viscosity Flow of Non-Newtonian Fluid with Double Stratification. Applied Sciences (Switzerland), 2020, 10, 708.	2.5	23
46	Hybrid Predictor Based Four-Phase Adaptive Reversible Watermarking. IEEE Access, 2018, 6, 13213-13230.	4.2	22
47	Thermally Stratified Darcy Forchheimer Flow on a Moving Thin Needle with Homogeneous Heterogeneous Reactions and Non-Uniform Heat Source/Sink. Applied Sciences (Switzerland), 2020, 10, 432.	2.5	22
48	New Potential Functions with Random Force Algorithms Using Potential Field Method. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 66, 303-319.	3.4	21
49	Towards the Development of a Mobile Phonopneumogram: Automatic Breath-Phase Classification Using Smartphones. Annals of Biomedical Engineering, 2016, 44, 2746-2759.	2.5	19
50	An indoor localization solution using Bluetooth RSSI and multiple sensors on a smartphone. Multimedia Tools and Applications, 2018, 77, 12635-12654.	3.9	19
51	Understanding Citizen Issues through Reviews: A Step towards Data Informed Planning in Smart Cities. Applied Sciences (Switzerland), 2018, 8, 1589.	2.5	18
52	An Indoor Positioning System Using Bluetooth RSSI with an Accelerometer and a Barometer on a Smartphone. , 2015, , .		16
53	Numerical Analysis of Carbon Nanotube-Based Nanofluid Unsteady Flow Amid Two Rotating Disks with Hall Current Coatings and Homogeneousâ€"Heterogeneous Reactions. Coatings, 2020, 10, 48.	2.6	16
54	Remote Pulmonary Function Test Monitoring in Cloud Platform via Smartphone Built-in Microphone. Evolutionary Bioinformatics, 2019, 15, 117693431988890.	1.2	15

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55	A New Dispersion Control Chart for Handling the Neutrosophic Data. IEEE Access, 2020, 8, 96006-96015.	4.2	15
56	Nonlinear system identification of smart reinforced concrete structures under impact loads. JVC/Journal of Vibration and Control, 2016, 22, 3576-3600.	2.6	14
57	A Robust Regression-Based Stock Exchange Forecasting and Determination of Correlation Between Stock Markets. Sustainability, 2018, 10, 3702.	3.2	14
58	Impact of Nonlinear Chemical Reaction and Melting Heat Transfer on an MHD Nanofluid Flow over a Thin Needle in Porous Media. Applied Sciences (Switzerland), 2019, 9, 5492.	2.5	14
59	Real-time abnormal situation detection based on particle advection in crowded scenes. Journal of Real-Time Image Processing, 2015, 10, 771-784.	3.5	13
60	Ranking Authors in an Academic Network Using Social Network Measures. Applied Sciences (Switzerland), 2018, 8, 1824.	2.5	13
61	A dynamic caching strategy for CCN-based MANETs. Computer Networks, 2018, 142, 93-107.	5.1	13
62	Retrieval of Identical Clothing Images Based on Local Color Histograms. , 2008, , .		12
63	Crowd flux analysis and abnormal event detection in unstructured and structured scenes. Multimedia Tools and Applications, 2014, 72, 3001-3029.	3.9	12
64	Loitering detection using an associating pedestrian tracker in crowded scenes. Multimedia Tools and Applications, 2015, 74, 2939-2961.	3.9	12
65	Natural Language Description of Videos for Smart Surveillance. Applied Sciences (Switzerland), 2021, 11, 3730.	2.5	12
66	CLOVER: A Mobile Content-Based Leaf Image Retrieval System. Lecture Notes in Computer Science, 2005, , 139-148.	1.3	12
67	Human Gait Analysis: A Sequential Framework of Lightweight Deep Learning and Improved Moth-Flame Optimization Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.7	12
68	Association and Identification in Heterogeneous Sensors Environment with Coverage Uncertainty. , 2009, , .		11
69	Physical activity recognition using a single triaxial accelerometer and a barometric sensor for baby and child care in a home environment. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 381-402.	1.4	11
70	Optimal placement of multiple visual sensors considering space coverage and cost constraints. Multimedia Tools and Applications, 2014, 73, 129-150.	3.9	11
71	Random force based algorithm for local minima escape of potential field method. , 2010, , .		10
72	Inference topology of distributed camera networks with multiple cameras. Multimedia Tools and Applications, 2013, 67, 289-309.	3.9	10

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73	Real-time abandoned and stolen object detection based on spatio-temporal features in crowded scenes. Multimedia Tools and Applications, 2016, 75, 7003-7028.	3.9	10
74	An efficient post-processing adaptive filtering technique to rectifying the flickering effects. PLoS ONE, 2021, 16, e0250959.	2.5	10
75	Sector Based Scanning and Adaptive Active Tracking of Multiple Objects. KSII Transactions on Internet and Information Systems, 0, , 1166-1191.	0.3	10
76	An Optimal Power Flow Solution of a System Integrated with Renewable Sources Using a Hybrid Optimizer. Sustainability, 2021, 13, 13382.	3.2	10
77	Dynamic malware attack dataset leveraging virtual machine monitor audit data for the detection of intrusions in cloud. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4287.	3.9	9
78	Analysis of Statistical Methods for Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series. , 2015, , .		8
79	Photoplethysmography Signal Analysis for Optimal Region-of-Interest Determination in Video Imaging on a Built-In Smartphone under Different Conditions. Sensors, 2017, 17, 2385.	3.8	8
80	Implementing situation-aware and user-adaptive music recommendation service in semantic web and real-time multimedia computing environment. Multimedia Tools and Applications, 2013, 65, 259-282.	3.9	7
81	Virtual Reality-Based Visual Interaction: A Framework for Classification of Ethnic Clothing Totem Patterns. IEEE Access, 2021, 9, 81512-81526.	4.2	7
82	Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series. Journal of Electrical Engineering and Technology, 2017, 12, 346-355.	2.0	7
83	Employing an Incentive Spirometer to Calibrate Tidal Volumes Estimated from a Smartphone Camera. Sensors, 2016, 16, 397.	3.8	6
84	A model of FSM-based planner and dialogue supporting system for emergency call services. Journal of Supercomputing, 2018, 74, 4603-4612.	3.6	6
85	An Efficient Pareto Optimal Resource Allocation Scheme in Cognitive Radio-Based Internet of Things Networks. Sensors, 2022, 22, 451.	3.8	6
86	ISS: Intelligent Surveillance System Using Autonomous Multiple Cameras. , 2009, , .		5
87	Smartphone-camera-acquired pulse photoplethysmographic signal for deriving respiratory rate. , 2014, , .		5
88	A low-cost video-oculography system for vestibular function testing. , 2017, 2017, 4078-4081.		5
89	A head-mounted goggle-type video-oculography system for vestibular function testing. Eurasip Journal on Image and Video Processing, 2018, 2018, .	2.6	5
90	A novel approach of making better recommendations by revealing hidden desires and information curation for users of internet of things. Multimedia Tools and Applications, 2019, 78, 3183-3201.	3.9	5

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91	Extracting and visualising human activity patterns of daily living in a smart home environment. IET Communications, 2011, 5, 2434-2442.	2.2	4
92	An Interactive IPTV System With Community Participation in Cloud Computing Environments. IEEE Systems Journal, 2014, 8, 174-183.	4.6	4
93	A comprehensive analysis of association process for IEEE 802.15.4 wireless networks. International Journal of Ad Hoc and Ubiquitous Computing, 2014, 16, 70.	0.5	4
94	Real-time heart activity monitoring with optical illusion using a smartphone. Multimedia Tools and Applications, 2018, 77, 6209-6224.	3.9	4
95	Network anomaly detection based on probabilistic analysis. Soft Computing, 2018, 22, 6621-6627.	3.6	4
96	Analyzing electrocardiogram signals obtained from a nymi band to detect atrial fibrillation. Multimedia Tools and Applications, 2020, 79, 15985-15999.	3.9	4
97	Detection of Atrial Fibrillation in Short-Lead Electrocardiogram Recordings Obtained using a Smart Scale. Journal of Electrical Engineering and Technology, 2021, 16, 1109-1118.	2.0	4
98	Recent Meta-Heuristic Algorithms with a Novel Premature Covergence Method for Determining the Parameters of PV Cells and Modules. Electronics (Switzerland), 2021, 10, 1846.	3.1	4
99	Enhancement of the Evaporation and Condensation Processes of a Solar Still with an Ultrasound Cotton Tent and a Thermoelectric Cooling Chamber. Electronics (Switzerland), 2022, 11, 284.	3.1	4
100	Optimal Deep-Learning-Enabled Intelligent Decision Support System for SARS-CoV-2 Classification. Journal of Healthcare Engineering, 2022, 2022, 1-14.	1.9	4
101	Gold surface microelectrode arrays permit geometrical control of neuronal networks via thiol linking chemistry. , 0, , .		3
102	Adaptive Background Modeling for Effective Ghost Removal and Robust Left Object Detection. , 2010, , .		3
103	Individualized Exercise and Diet Recommendations: An Expert System for Monitoring Physical Activity and Lifestyle Interventions in Obesity. Journal of Electrical Engineering and Technology, 2015, 10, 2434-2441.	2.0	3
104	Real-time realizable mobile imaging photoplethysmography. Scientific Reports, 2022, 12, 7141.	3.3	3
105	Estimation of respiratory rate in various environments using microphones embedded in face masks. Journal of Supercomputing, 2022, 78, 19228-19245.	3.6	3
106	Simplified 3D Hologram Heart Activity Monitoring Using a Smartphone. , 2015, , .		2
107	A Real-Time Sleep Monitoring System with a Smartphone. , 2015, , .		2
108	Scattered image artifacts from cone beam computed tomography and its clinical potential in bone mineral density estimation. SpringerPlus, 2016, 5, 1360.	1.2	2

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109	Detection of peritonsillar abscess using smartphone-based thermal imaging. Pakistan Journal of Medical Sciences, 2017, 33, 502-504.	0.6	2
110	Electrical recordings with gold coated microelectrode arrays that permit the control of neuronal attachment. , 0, , .		1
111	Data modeling and query processing for distributed surveillance systems. New Review of Hypermedia and Multimedia, 2013, 19, 299-327.	1.1	1
112	Fuzzy Logic€based Efficient Interest Forwarding (FLEIF) in Named Data Networking. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3577.	3.9	1
113	Gait analysis in patients with neurological disorders using ankle-worn accelerometers. Journal of Supercomputing, 2021, 77, 8374-8390.	3.6	1
114	Finding Temporal Influential Users in Social Media Using Association Rule Learning. Intelligent Automation and Soft Computing, 0, , -1--1.	2.1	1
115	Diffraction of Transient Cylindrical Waves by a Rigid Oscillating Strip. Applied Sciences (Switzerland), 2020, 10, 3568.	2.5	1
116	Deep Learning Based on Ensemble to Diagnose of Retinal Disease using Optical Coherence Tomography. , 2021, , .		1
117	Reputation based Access Control in Social Networks for Persona Management. Lecture Notes on Data Engineering and Communications Technologies, 2017, , 209-214.	0.7	0
118	Comparative Analysis of Machine Learning Algorithms along with Classifiers for AF Detection using a Scale. , 2019, , .		0
119	Analysis of Vocal Disorders using Cobweb Clustering. , 2019, , .		0
120	Development of a color block play device for child attentional capability test. Journal of Supercomputing, 0, , 1.	3.6	0