Seungchul Lee

List of Publications by Year
in descending order

42	856	471509 17	526287 27
papers	citations	h-index	g-index

43	43	43	644
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving an Intelligent Detection System for Coronary Heart Disease Using a Two-Tier Classifier Ensemble. BioMed Research International, 2020, 2020, 1-10.	1.9	82
2	Rotating Machinery Diagnostics Using Deep Learning on Orbit Plot Images. Procedia Manufacturing, 2016, 5, 1107-1118.	1.9	52
3	Deep learning acceleration of multiscale superresolution localization photoacoustic imaging. Light: Science and Applications, 2022, 11, 131.	16.6	52
4	Steel Surface Defect Diagnostics Using Deep Convolutional Neural Network and Class Activation Map. Applied Sciences (Switzerland), 2019, 9, 5449.	2.5	51
5	Prediction and validation of the transverse mechanical behavior of unidirectional composites considering interfacial debonding through convolutional neural networks. Composites Part B: Engineering, 2021, 225, 109314.	12.0	42
6	Vision-Based Fault Diagnostics Using Explainable Deep Learning With Class Activation Maps. IEEE Access, 2020, 8, 129169-129179.	4.2	39
7	Convolutional Neural Network Classifies Pathological Voice Change in Laryngeal Cancer with High Accuracy. Journal of Clinical Medicine, 2020, 9, 3415.	2.4	39
8	Improved classification and localization approach to small bowel capsule endoscopy using convolutional neural network. Digestive Endoscopy, 2021, 33, 598-607.	2.3	35
9	Recent Advances of Artificial Intelligence in Manufacturing Industrial Sectors: A Review. International Journal of Precision Engineering and Manufacturing, 2022, 23, 111-129.	2.2	31
10	Deep learning-based discriminative refocusing of scanning electron microscopy images for materials science. Acta Materialia, 2021, 214, 116987.	7.9	29
11	Applications of deep learning for fault detection in industrial cold forging. International Journal of Production Research, 2021, 59, 4826-4835.	7.5	25
12	Temperature Control Optimization in a Steelâ€Making Continuous Casting Process Using a Multimodal Deep Learning Approach. Steel Research International, 2019, 90, 1900321.	1.8	24
13	Super-resolving material microstructure image via deep learning for microstructure characterization and mechanical behavior analysis. Npj Computational Materials, 2021, 7, .	8.7	24
14	Convolutional neural networkâ€based object detection model to identify gastrointestinal stromal tumors in endoscopic ultrasound images. Journal of Gastroenterology and Hepatology (Australia), 2021, 36, 3387-3394.	2.8	24
15	The performance of bioinspired valveless piezoelectric micropump with respect to viscosity change. Bioinspiration and Biomimetics, 2016, 11, 036006.	2.9	23
16	Bi-Modal Transfer Learning for Classifying Breast Cancers via Combined B-Mode and Ultrasound Strain Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 222-232.	3.0	22
17	Spatial and Sequential Deep Learning Approach for Predicting Temperature Distribution in a Steel-Making Continuous Casting Process. IEEE Access, 2020, 8, 21953-21965.	4.2	20
18	Recent Advances in the Application of Artificial Intelligence in Otorhinolaryngology-Head and Neck Surgery. Clinical and Experimental Otorhinolaryngology, 2020, 13, 326-339.	2.1	20

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19	Floating of the lobes of mosquito (Aedes togoi) larva for respiration. Scientific Reports, 2017, 7, 43050.	3.3	16
20	Development of Artificial Neural Network System to Recommend Process Conditions of Injection Molding for Various Geometries. Advanced Intelligent Systems, 2020, 2, 2000037.	6.1	16
21	Uptake of liquid from wet surfaces by the brush-tipped proboscis of a butterfly. Scientific Reports, 2014, 4, 6934.	3.3	15
22	Optimizing laser powder bed fusion of Ti-5Al-5V-5Mo-3Cr by artificial intelligence. Journal of Alloys and Compounds, 2021, 862, 158018.	5.5	15
23	Knowledge Integration into deep learning in dynamical systems: an overview and taxonomy. Journal of Mechanical Science and Technology, 2021, 35, 1331-1342.	1.5	15
24	Liquid-intake flow around the tip of butterfly proboscis. Journal of Theoretical Biology, 2014, 348, 113-121.	1.7	14
25	Effects of oil-film layer and surfactant on the siphonal respiration and survivorship in the fourth instar larvae of Aedes togoi mosquito in laboratory conditions. Scientific Reports, 2018, 8, 5694.	3.3	14
26	A Neural Network Model for Material Degradation Detection and Diagnosis Using Microscopic Images. IEEE Access, 2019, 7, 92151-92160.	4.2	14
27	Analysis of cold compaction for Fe-C, Fe-C-Cu powder design based on constitutive relation and artificial neural networks. Powder Technology, 2019, 353, 330-344.	4.2	13
28	Deep Learning-Based Estimation of the Unknown Road Profile and State Variables for the Vehicle Suspension System. IEEE Access, 2021, 9, 13878-13890.	4.2	13
29	Deep Learning-Enabled High-Resolution and Fast Sound Source Localization in Spherical Microphone Array System. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	13
30	Integrated deep learning framework for accelerated optical coherence tomography angiography. Scientific Reports, 2022, 12, 1289.	3.3	10
31	Experimental analysis of the liquid-feeding mechanism of the butterfly Pieris rapae. Journal of Experimental Biology, 2014, 217, 2013-9.	1.7	9
32	Experimental study on the life prediction of servo motors through model-based system degradation assessment and accelerated degradation testing. Journal of Mechanical Science and Technology, 2018, 32, 5105-5110.	1.5	7
33	Gallbladder Polyp Classification in Ultrasound Images Using an Ensemble Convolutional Neural Network Model. Journal of Clinical Medicine, 2021, 10, 3585.	2.4	7
34	Remote machine mode detection in cold forging using vibration signal. Procedia Manufacturing, 2020, 48, 908-914.	1.9	5
35	Reliability-Enhanced Camera Lens Module Classification Using Semi-Supervised Regression Method. Applied Sciences (Switzerland), 2020, 10, 3832.	2.5	5
36	A Physics-informed and data-driven deep learning approach for wave propagation and its scattering characteristics. Engineering With Computers, 2023, 39, 2609-2625.	6.1	4

#	Article	IF	Citations
37	TCAD augmented generative adversarial network for hot-spot detection and mask-layout optimization in a large area HARC etching process. Physics of Plasmas, 2022, 29, .	1.9	4
38	Adhesion and Suction Functions of the Tip Region of a Nectar-drinking Butterfly Proboscis. Journal of Bionic Engineering, 2017, 14, 600-606.	5.0	3
39	Estimating the phase volume fraction of multi-phase steel via unsupervised deep learning. Scientific Reports, 2021, 11, 5902.	3.3	3
40	A Systematic Mapping Study and Empirical Comparison of Data-Driven Intrusion Detection Techniques in Industrial Control Networks. Archives of Computational Methods in Engineering, 2022, 29, 5353-5380.	10.2	3
41	Artificial intelligence in the field of electrodiagnosis â€“ A new threat or heralding a new era in electromyography?. Clinical Neurophysiology, 2019, 130, 1995-1996.	1.5	2
42	Deep learning enables accelerated optical coherence tomography angiography. , 2022, , .		1