Seungchul Lee

List of Publications by Year
in descending order

42 papers	856 citations	471509 17 h-index	526287 27 g-index
43 all docs	43 docs citations	43 times ranked	644 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Integrated deep learning framework for accelerated optical coherence tomography angiography. Scientific Reports, 2022, 12, 1289.	3.3	10
5	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
6	Deep learning enables accelerated optical coherence tomography angiography. , 2022, , .		1
7	Deep learning acceleration of multiscale superresolution localization photoacoustic imaging. Light: Science and Applications, 2022, 11, 131.	16.6	52
8	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
9	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
10	Improved classification and localization approach to small bowel capsule endoscopy using convolutional neural network. Digestive Endoscopy, 2021, 33, 598-607.	2.3	35
11	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
12	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
13	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
14	Estimating the phase volume fraction of multi-phase steel via unsupervised deep learning. Scientific Reports, 2021, 11, 5902.	3.3	3
15	Applications of deep learning for fault detection in industrial cold forging. International Journal of Production Research, 2021, 59, 4826-4835.	7.5	25
16	Super-resolving material microstructure image via deep learning for microstructure characterization and mechanical behavior analysis. Npj Computational Materials, 2021, 7, .	8.7	24
17	Convolutional neural network–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
18	Gallbladder Polyp Classification in Ultrasound Images Using an Ensemble Convolutional Neural Network Model. Journal of Clinical Medicine, 2021, 10, 3585.	2.4	7

#	Article	IF	Citations
19	Deep learning-based discriminative refocusing of scanning electron microscopy images for materials science. Acta Materialia, 2021, 214, 116987.	7.9	29
20	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
21	Remote machine mode detection in cold forging using vibration signal. Procedia Manufacturing, 2020, 48, 908-914.	1.9	5
22	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
23	Vision-Based Fault Diagnostics Using Explainable Deep Learning With Class Activation Maps. IEEE Access, 2020, 8, 129169-129179.	4.2	39
24	Convolutional Neural Network Classifies Pathological Voice Change in Laryngeal Cancer with High Accuracy. Journal of Clinical Medicine, 2020, 9, 3415.	2.4	39
25	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
26	Reliability-Enhanced Camera Lens Module Classification Using Semi-Supervised Regression Method. Applied Sciences (Switzerland), 2020, 10, 3832.	2.5	5
27	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
28	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
29	A Neural Network Model for Material Degradation Detection and Diagnosis Using Microscopic Images. IEEE Access, 2019, 7, 92151-92160.	4.2	14
30	Temperature Control Optimization in a Steel–Making Continuous Casting Process Using a Multimodal Deep Learning Approach. Steel Research International, 2019, 90, 1900321.	1.8	24
31	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
32	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
33	Steel Surface Defect Diagnostics Using Deep Convolutional Neural Network and Class Activation Map. Applied Sciences (Switzerland), 2019, 9, 5449.	2.5	51
34	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
35	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
36	Floating of the lobes of mosquito (Aedes togoi) larva for respiration. Scientific Reports, 2017, 7, 43050.	3.3	16

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37	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
38	The performance of bioinspired valveless piezoelectric micropump with respect to viscosity change. Bioinspiration and Biomimetics, 2016, 11, 036006.	2.9	23
39	Rotating Machinery Diagnostics Using Deep Learning on Orbit Plot Images. Procedia Manufacturing, 2016, 5, 1107-1118.	1.9	52
40	Experimental analysis of the liquid-feeding mechanism of the butterfly *Pieris rapae*. Journal of Experimental Biology, 2014, 217, 2013-9.	1.7	9
41	Liquid-intake flow around the tip of butterfly proboscis. Journal of Theoretical Biology, 2014, 348, 113-121.	1.7	14
42	Uptake of liquid from wet surfaces by the brush-tipped proboscis of a butterfly. Scientific Reports, 2014, 4, 6934.	3.3	15