

# Nae-Soo Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5829339/publications.pdf>

Version: 2024-02-01

84  
papers

3,085  
citations

759233

12  
h-index

642732

23  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2910  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A Gift from Knowledge Distillation: Fast Optimization, Network Minimization and Transfer Learning. , 2017, , .   |      | 794       |
| 2  | Joint Fine-Tuning in Deep Neural Networks for Facial Expression Recognition. , 2015, , .   |      | 487       |
| 3  | Deep Pyramidal Residual Networks. , 2017, , .  |      | 326       |
| 4  | Deep Saliency with Encoded Low Level Distance Map and High Level Features. , 2016, , .   |      | 303       |
| 5  | Salient Region Detection via High-Dimensional Color Transform. , 2014, , .   |      | 203       |
| 6  | Active Convolution: Learning the Shape of Convolution for Image Classification. , 2017, , .  |      | 118       |
| 7  | Plankton classification on imbalanced large scale database via convolutional neural networks with transfer learning. , 2016, , .   |      | 102       |
| 8  | A Low-Power RF Direct-Conversion Receiver/Transmitter for 2.4-GHz-Band IEEE 802.15.4 Standard in 0.18- $\mu\text{m}$ CMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4062-4071.                             | 4.6  | 89        |
| 9  | Deep feature classification of angiomyolipoma without visible fat and renal cell carcinoma in abdominal contrast-enhanced CT images with texture image patches and hand-crafted feature concatenation. Medical Physics, 2018, 45, 1550-1561. | 3.0  | 60        |
| 10 | Differentiation of fat-poor angiomyolipoma from clear cell renal cell carcinoma in contrast-enhanced MDCT images using quantitative feature classification. Medical Physics, 2017, 44, 3604-3614.  | 3.0  | 51        |
| 11 | Rotating your face using multi-task deep neural network. , 2015, , .   |      | 44        |
| 12 | A New Approach to Low-Power and Low-Latency Wake-Up Receiver System for Wireless Sensor Nodes. IEEE Journal of Solid-State Circuits, 2012, 47, 2405-2419.  | 5.4  | 41        |
| 13 | Development of deep learning-based facial expression recognition system. , 2015, , .   |      | 40        |
| 14 | ELD-Net: An Efficient Deep Learning Architecture for Accurate Saliency Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1599-1610.   | 13.9 | 40        |
| 15 | Deep Facial Age Estimation Using Conditional Multitask Learning With Weak Label Expansion. IEEE Signal Processing Letters, 2018, 25, 808-812.  | 3.6  | 34        |
| 16 | Generating a Fusion Image: One's Identity and Another's Shape. , 2018, , .   |      | 30        |
| 17 | Automatic Recognition of Children Engagement from Facial Video Using Convolutional Neural Networks. IEEE Transactions on Affective Computing, 2020, 11, 696-707.   | 8.3  | 30        |
| 18 | TiVGAN: Text to Image to Video Generation With Step-by-Step Evolutionary Generator. IEEE Access, 2020, 8, 153113-153122.   | 4.2  | 30        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Deep Architecture With Cross Guidance Between Single Image and Sparse LiDAR Data for Depth Completion. IEEE Access, 2020, 8, 79801-79810.   | 4.2  | 29        |
| 20 | Adjusting Decision Boundary for Class Imbalanced Learning. IEEE Access, 2020, 8, 81674-81685.   | 4.2  | 23        |
| 21 | Densely Distilled Flow-Based Knowledge Transfer in Teacher-Student Framework for Image Classification. IEEE Transactions on Image Processing, 2020, 29, 5698-5710.                                      | 9.8  | 18        |
| 22 | Unified Simultaneous Clustering and Feature Selection for Unlabeled and Labeled Data. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6083-6098.                                   | 11.3 | 14        |
| 23 | Continual Learning With Extended Kronecker-Factored Approximate Curvature. , 2020, , .  |      | 13        |
| 24 | Classification of focal liver lesions in CT images using convolutional neural networks with lesion information augmented patches and synthetic data augmentation. Medical Physics, 2021, 48, 5029-5046. | 3.0  | 13        |
| 25 | Segmentation of anterior cruciate ligament in knee MR images using graph cuts with patient-specific shape constraints and label refinement. Computers in Biology and Medicine, 2014, 55, 1-10.          | 7.0  | 12        |
| 26 | Real-time personalized facial expression recognition system based on deep learning. , 2016, , .   |      | 12        |
| 27 | BCD-NET: A novel method for cartilage segmentation of knee MRI via deep segmentation networks with bone-cartilage-complex modeling. , 2018, , .   |      | 11        |
| 28 | Detection and segmentation of small renal masses in contrast-enhanced CT images using texture and context feature classification. , 2017, , .   |      | 10        |
| 29 | Deep-Learning-Based Pipe Leak Detection Using Image-Based Leak Features. , 2018, , .  |      | 9         |
| 30 | Leveraging Contextual Information for Monocular Depth Estimation. IEEE Access, 2020, 8, 147808-147817.  | 4.2  | 8         |
| 31 | Superior prognosis prediction performance of deep learning for gastric cancer compared to Yonsei prognosis prediction model using Cox regression.. Journal of Clinical Oncology, 2017, 35, 164-164.     | 1.6  | 8         |
| 32 | PBP-Net: Point Projection and Back-Projection Network for 3D Point Cloud Segmentation. , 2020, , .  |      | 7         |
| 33 | Study on IoT based wild vegetation community ecological monitoring system. , 2015, , .  |      | 5         |
| 34 | Seed growing for interactive image segmentation with geodesic voting. , 2016, , .   |      | 5         |
| 35 | SAR Image Generation of Ground Targets for Automatic Target Recognition Using Indirect Information. IEEE Access, 2021, 9, 27003-27014.  | 4.2  | 5         |
| 36 | Extending Contrastive Learning to Unsupervised Coreset Selection. IEEE Access, 2022, 10, 7704-7715.   | 4.2  | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | A low-power CMOS dual-band RF receiver for IEEE 802.15.4-based sensor node applications. Microwave and Optical Technology Letters, 2010, 52, 163-166.                     | 1.4 | 3         |
| 38 | Rate Enhancement for the Gaussian Z-Interference Channel with Transmitter Cooperation. IEEE Communications Letters, 2010, 14, 821-823.                                    | 4.1 | 3         |
| 39 | Block Poisson Method and its application to large scale image editing. , 2012, , .  |     | 3         |
| 40 | Cross-domain metadata environment for relative information-based service. , 2016, , .   |     | 3         |
| 41 | Improving Video Captioning with Non-Local Neural Networks. , 2018, , .  |     | 3         |
| 42 | Joint Learning of Generative Translator and Classifier for Visually Similar Classes. IEEE Access, 2020, 8, 219160-219173.   | 4.2 | 3         |
| 43 | RRNet: Repetition-Reduction Network for Energy Efficient Depth Estimation. IEEE Access, 2020, 8, 106097-106108.   | 4.2 | 3         |
| 44 | Cut-and-Paste Dataset Generation for Balancing Domain Gaps in Object Instance Detection. IEEE Access, 2021, 9, 14319-14329.   | 4.2 | 3         |
| 45 | Projection-Based Point Convolution for Efficient Point Cloud Segmentation. IEEE Access, 2022, 10, 15348-15358.  | 4.2 | 3         |
| 46 | Performance analysis of channel impairment in high data rate satellite communication service. , 0, , .  |     | 2         |
| 47 | Data traffic based route selection for real-time data delivery in wireless sensor networks. , 2010, , .   |     | 2         |
| 48 | A novel method for salient object detection via compactness measurement. , 2013, , .  |     | 2         |
| 49 | Tunnel Effect in CNNs: Image Reconstruction From Max Switch Locations. IEEE Signal Processing Letters, 2017, 24, 254-258.   | 3.6 | 2         |
| 50 | Cost-efficient 3D face reconstruction from a single 2D image. , 2017, , .   |     | 2         |
| 51 | Trusted cross-domain metadata model for context aware services. , 2017, , .   |     | 2         |
| 52 | Single Image Super-Resolution via Similarity Between Spatially Scattered Features. IEEE Access, 2020, 8, 137672-137682.   | 4.2 | 2         |
| 53 | Differentiable Architecture Search Based on Coordinate Descent. IEEE Access, 2021, 9, 48544-48554.  | 4.2 | 2         |
| 54 | Occlusion Handling by Successively Excluding Foregrounds for Light Field Depth Estimation Based on Foreground-Background Separation. IEEE Access, 2021, 9, 103927-103936. | 4.2 | 2         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Refining background subtraction using consistent motion detection in adverse weather. Journal of Electronic Imaging, 2019, 28, 1.          | 0.9 | 2         |
| 56 | Achievable Rates of Multi-Antenna Downlink Channels with Peak Power Constraints. IEEE Transactions on Communications, 2012, 60, 2199-2207. | 7.8 | 1         |
| 57 | Face recognition using average example image. Electronics Letters, 2014, 50, 1921-1923.  | 1.0 | 1         |
| 58 | The method of providing dynamic IP management function in a gateway for IoE. , 2016, , .   |     | 1         |
| 59 | Uncorrelated Component Analysis-Based Hashing. IEEE Transactions on Image Processing, 2017, 26, 3759-3774.                                 | 9.8 | 1         |
| 60 | 3D face recognition via discriminative keypoint selection. , 2017, , .   |     | 1         |
| 61 | Incremental Learning in Deep Convolutional Neural Network VIA Adaptive Regularization. , 2018, , .   |     | 1         |
| 62 | Computationally Efficient Automatic Coast Mode Target Tracking Based on Occlusion Awareness in Infrared Images. Sensors, 2018, 18, 996.    | 3.8 | 1         |
| 63 | Multi-Task Learning Using Task Dependencies for Face Attributes Prediction. Applied Sciences (Switzerland), 2019, 9, 2535.                 | 2.5 | 1         |
| 64 | Randomized Voting-Based Rigid-Body Motion Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 698-713. | 8.3 | 1         |
| 65 | Unsupervised Blur Kernel Estimation and Correction for Blind Super-Resolution. IEEE Access, 2022, 10, 45179-45189.                         | 4.2 | 1         |
| 66 | Experiments and analysis of the standard TCP mechanisms using ATM based satellite network. , 0, , .  |     | 0         |
| 67 | Turbo-coded pragmatic trellis coded modulation using coset mapping. , 0, , .   |     | 0         |
| 68 | High-definition video-based multi-channel top-view vehicle surrounding monitoring system for mobile navigation devices. , 2013, , .        |     | 0         |
| 69 | Speaker dependent visual speech recognition using Extended Curvature Gabor filters. , 2013, , .  |     | 0         |
| 70 | Randomized decision bush: Combining global shape parameters and local scalable descriptors for human body parts recognition. , 2014, , .   |     | 0         |
| 71 | A new control owner switching system for multiple TV viewers via face recognition. , 2015, , .   |     | 0         |
| 72 | Entropy Minimization for Groupwise Planar Shape Co-alignment and its Applications. IEEE Signal Processing Letters, 2015, 22, 1922-1926.    | 3.6 | 0         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | Network Operation and Management System for Low-Power Wireless Sensor Network. , 2016, , .   |      | 0         |
| 74 | A Design of Continuous Learning System Based on Knowledge Augmentation. , 2017, , .  |      | 0         |
| 75 | Refine pedestrian detections by referring to features in different ways. , 2017, , .   |      | 0         |
| 76 | The method of providing IoE-based hierarchical context awareness. , 2018, , .  |      | 0         |
| 77 | Sequential Knowledge Transfer in Teacher-Student Framework Using Densely Distilled Flow-Based Information. , 2018, , .                                   |      | 0         |
| 78 | The method for hierarchical context awareness based on activity recognition. , 2019, , .   |      | 0         |
| 79 | Integrating Multiple Receptive Fields through Grouped Active Convolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 43, 1-1. | 13.9 | 0         |
| 80 | De-biasing Neural Networks with Estimated Offset for Class Imbalanced Learning. , 2021, , .  |      | 0         |
| 81 | Slimming ResNet by Slimming Shortcut. , 2021, , .  |      | 0         |
| 82 | Target-style-aware Unsupervised Domain Adaptation for Object Detection. IEEE Robotics and Automation Letters, 2021, , 1-1.                               | 5.1  | 0         |
| 83 | Delivering Meaningful Representation for Monocular Depth Estimation. , 2021, , .   |      | 0         |
| 84 | Extending Contrastive Learning to Unsupervised Redundancy Identification. Applied Sciences (Switzerland), 2022, 12, 2201.                                | 2.5  | 0         |