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RESEARCH INTERESTS	My research interests include low-level computer vision and deep learning. - Deep learning-based image super-resolution - Deep learning-based image compression	
EDUCATION	M.S./Ph.D. Student , School of Integrated Technology, College of Engineering Yonsei University , Korea 2015 - present B.S. , School of Integrated Technology, College of Engineering Yonsei University , Korea 2015	
JOURNAL	J.-H. Kim , J.-H. Choi, M. Cheon, and J.-S. Lee, "MAMNet: Multi-path adaptive modulation network for image super-resolution," <i>Neurocomputing</i> , vol. 402, pp. 38–49, 2020. J.-H. Choi, J.-H. Kim , M. Cheon, and J.-S. Lee, "Deep learning-based image super-resolution considering quantitative and perceptual quality," <i>Neurocomputing</i> , vol. 398, pp. 347–359, 2020. S.-E. Moon, J.-H. Kim , S.-W. Kim, and J.-S. Lee, "Prediction of car design and perception using EEG and gaze patterns," <i>IEEE Transactions on Affective Computing</i> , accepted.	
CONFERENCE	J.-H. Choi, H. Zhang, J.-H. Kim , C.-J. Hsieh, and J.-S. Lee, "Adversarially robust deep image super-resolution using entropy regularization," in <i>Proceedings of the Asian Conference on Computer Vision (ACCV)</i> , 2020. K.-H. Ahn, J.-H. Kim , J.-H. Choi, and J.-S. Lee, "Multi-scale adaptive residual network using total variation for real image super-resolution," in <i>Proceedings of the IEEE International Conference on Consumer Electronics Asia (ICCE-Asia)</i> , 2020. M.-S. Choi, J.-H. Kim , J.-H. Choi, and J.-S. Lee, "Efficient bokeh effect rendering using generative adversarial network," in <i>Proceedings of the IEEE International Conference on Consumer Electronics Asia (ICCE-Asia)</i> , 2020. J.-H. Kim , S. Jang, J.-H. Choi, and J.-S. Lee, "Instability of successive deep image compression," in <i>Proceedings of the ACM International Conference on Multimedia (MM)</i> , 2020. G.-W. Jeon, J.-H. Choi, J.-H. Kim , and J.-S. Lee, "LarvaNet: hierarchical super-resolution via multi-exit architecture," in <i>Proceedings of the European Conference on Computer Vision (ECCV) Workshops</i> , 2020. K. Zhang et al. (including J.-H. Kim), "AIM 2020 challenge on efficient super-resolution: methods and results," in <i>Proceedings of the European Conference on Computer Vision (ECCV) Workshops</i> , 2020. P. Wei et al. (including J.-H. Kim), "AIM 2020 challenge on real image super-resolution: methods and results," in <i>Proceedings of the European Conference on Computer Vision (ECCV) Workshops</i> , 2020. J.-H. Kim , J.-H. Choi, J. Chang, and J.-S. Lee, "Efficient deep learning-based lossy image compression via asymmetric autoencoder and pruning," in <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)</i> , 2020. J.-H. Choi, J.-H. Kim , and J.-S. Lee, "SRZoo: An integrated repository for super-	

resolution using deep learning,” in *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2020.

J.-H. Choi, H. Zhang, **J.-H. Kim**, C.-J. Hsieh, and J.-S. Lee, “Evaluating robustness of deep image super-resolution against adversarial attacks,” in *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, 2019.

J.-H. Kim, J.-H. Choi, C.-H. Seo, J. Chang, and J.-S. Lee, “Deep learning-based super-resolution for digital comics,” in *Proceedings of the SIGGRAPH Asia Posters*, 2018.

M. Cheon, **J.-H. Kim**, J.-H. Choi, and J.-S. Lee, “Generative adversarial network-based image super-resolution using perceptual content losses,” in *Proceedings of the European Conference on Computer Vision (ECCV) Workshops*, 2018.

J.-H. Kim and J.-S. Lee, “Deep residual network with enhanced upscaling module for super-resolution,” in *Proceedings of the IEEE Conference on Computer Vision (CVPR) Workshops*, 2018.

R. Timofte et al. (including **J.-H. Kim**), “NTIRE 2018 challenge on single image super-resolution: methods and results,” in *Proceedings of the IEEE Conference on Computer Vision (CVPR) Workshops*, 2018.

S.-E. Moon, **J.-H. Kim**, S.-W. Kim, and J.-S. Lee, “Assessing product design using photos and real products,” in *Proceedings of the CHI Conference Extended Abstracts on Human Factors in Computing Systems*, 2017.

J.-H. Kim and J.-S. Lee, “Travel photo album summarization based on aesthetic quality, interestingness, and memorableness,” in *Proceedings of APSIPA Annual Summit and Conference*, 2016.

PREPRINT

J.-H. Choi, **J.-H. Kim**, M. Cheon, and J.-S. Lee, “Lightweight and efficient image super-resolution with block state-based recursive network,” *arXiv:1811.12546*, 2018.

AWARDS

Merit Academic Paper Award, 2020-2 Yonsei Superior Paper Award, 2020.

2nd Place (Region 1), Yonsei-MCML team, *Super-Resolution Challenge on Perceptual Image Restoration and Manipulation (PIRM)*, in conjunction with ECCV, 2018.

2nd Place (Region 2), Yonsei-MCML team, *Super-Resolution Challenge on Perceptual Image Restoration and Manipulation (PIRM)*, in conjunction with ECCV, 2018.