

DAEJIN KIM

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EDUCATION

Korea Advanced Institute of Science and Technology KAIST AI Master Course in DAVIAN Laboratory (Professor: <i>Jaegul Choo</i>)	Mar 2021 – Feb 2023 (Expected) GPA: 4.3/4.3
Sungkyunkwan University Bachelor of Computer Science and Engineering Undergraduate research student in DIALLab Laboratory (Professor: <i>Jongwuk Lee</i>)	Mar 2017 – Feb 2021 Major GPA: 4.39/4.5 (Great honor)

PUBLICATIONS

Mining Multi-Label Samples from Single Positive Labels <i>Conference on Neural Information Processing Systems (NeurIPS), 2022, Accepted.</i> <i>Youngin Cho*, Daejin Kim*, Mohammad Azam Khan and Jaegul Choo (*: equal contributions)</i> <ul style="list-style-type: none">· Propose a novel way to draw samples of joint classes (e.g., $A \cap B$) using only single positive labels (e.g., A, B).· Estimate the conditional density of (non-)overlapping classes using MCMC method with logits of classifiers.	2022
WaveBound: Dynamically Bounding Error for Stable Time Series Forecasting <i>Conference on Neural Information Processing Systems (NeurIPS), 2022, Accepted.</i> <i>Youngin Cho*, Daejin Kim*, Dongmin Kim, Mohammad Azam Khan and Jaegul Choo (*: equal contributions)</i> <ul style="list-style-type: none">· Introduce the dynamic error bounds to address the overfitting issue in time series forecasting.· Propose a novel regularization method that estimates the training loss inevitably occurs in noisy patterns.	2022
Residual Correction in Real-Time Traffic Forecasting <i>ACM International Conference on Information and Knowledge Management (CIKM), 2022, Accepted.</i> <i>Daejin Kim*, Youngin Cho*, Dongmin Kim, Cheonbok Park and Jaegul Choo (*: equal contributions)</i> <ul style="list-style-type: none">· Identify that recent deep-learning-based traffic forecasting methods does not handle the residual autocorrelation.· Propose a simple add-on module to reduce residual autocorrelation and consistently improve the performance.	2022
Not just Compete, but Collaborate: Local Image-to-Image Translation via Cooperative Mask Prediction <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021, Accepted.</i> <i>Daejin Kim, Mohammad Azam Khan, and Jaegul Choo</i> <ul style="list-style-type: none">· Improve the existing face editing methods by preserving the attribute-irrelevant regions using Grad-CAM.· Propose a novel loss that allows the generator and the discriminator to collaborate.	2021

UNPUBLISHED / PROJECTS

Your Lottery Ticket is Damaged: Towards All-Alive Pruning for Extremely Sparse Networks <i>Unpublished work</i> <i>Daejin Kim, Minsoo Kim, Hyunjung Shim, and Jongwuk Lee</i> <ul style="list-style-type: none">· Explicitly handle the useless weights occurred by existing saliency-based pruning methods.· Improve the performance of existing saliency-based pruning methods (e.g., MP, SNIP, LAP) at high sparsity.	2020
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SKILLS AND INTERESTS

Skills: PyTorch, Tensorflow, JS Framework (Node.js, AngularJS, ...)
Interests: Explainable AI (XAI), Generative model, Network compression, Time series forecasting