

DAEJIN KIM

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EDUCATION

Korea Advanced Institute of Science and Technology Mar 2021 – Feb 2023 (Expected)
KAIST AI **GPA: 4.3/4.3**
Master Course in DAVIAN Laboratory (Professor: *Jaegul Choo*)

Sungkyunkwan University Mar 2017 – Feb 2021
Bachelor of Computer Science and Engineering **Major GPA: 4.39/4.5 (Great honor)**
Undergraduate research student in DIALLab Laboratory (Professor: *Jongwuk Lee*)

WORK EXPERIENCE

NAVER WEBTOON Corp. Nov 2022 –
Internship at NAVER WEBTOON AI Research Lab

PUBLICATIONS

Mining Multi-Label Samples from Single Positive Labels 2022

Conference on Neural Information Processing Systems (NeurIPS), 2022, Accepted.

Youngin Cho, Daejin Kim*, Mohammad Azam Khan and Jaegul Choo (*: equal contributions)*

- 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.

WaveBound: Dynamically Bounding Error for Stable Time Series Forecasting 2022

Conference on Neural Information Processing Systems (NeurIPS), 2022, Accepted.

Youngin Cho, Daejin Kim*, Dongmin Kim, Mohammad Azam Khan and Jaegul Choo (*: equal contributions)*

- 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.

Residual Correction in Real-Time Traffic Forecasting 2022

ACM International Conference on Information and Knowledge Management (CIKM), 2022, Accepted.

Daejin Kim, Youngin Cho*, Dongmin Kim, Cheonbok Park and Jaegul Choo (*: equal contributions)*

- 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.

Not just Compete, but Collaborate: Local Image-to-Image Translation via Cooperative Mask Prediction 2021

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021, Accepted.

Daejin Kim, Mohammad Azam Khan, and Jaegul Choo

- 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.

UNPUBLISHED / PROJECTS

Your Lottery Ticket is Damaged: Towards All-Alive Pruning for Extremely Sparse Networks 2020
Unpublished research

Daejin Kim, Minsoo Kim, Hyunjung Shim, and Jongwuk Lee

- 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.

Editable Text-Adaptive GAN

2019

Project (Advisor: Jongwuk Lee)

- Inspired by Text-Adaptive GAN and Editable GAN, propose a single GAN that can generate and manipulate images simultaneously for the given text prompt.

SKILLS AND INTERESTS

Skills: PyTorch, Tensorflow, JS Framework (Node.js, AngularJS, ...)

Interests: Explainable AI (XAI), Generative model, Network compression, Time series forecasting