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Research Interest _

Computer Vision, Neural-ODE

Education

M.S. in Artificial Intelligence

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHONOLOGY (KAIST), GRADUATE CANDIDATE

• Advisor: Prof. Jaegul Choo

Daejeon, S.Korea

Mar. 2020 - Present

M.S. in Artificial Intelligence

KOREA UNIVERSITY, GRADUATE CANDIDATE

• Advisor: Prof. Jaegul Choo

Seoul, S.Korea

Sep. 2019 - Feb. 2020

B.S. in Computer Science

KOREA UNIVERSITY

Seoul, S.Korea

Mar. 2013 - Aug. 2019

Publications

CONFERENCE PAPERS

C1 S. Kim*, S. Park*, S. Chung*, J. Lee, Y. Lee, H. Kim, Mr Prabhat, and J. Choo. "Learning to Focus and Track Extreme Climate Events"

British Machine Vision Conference (BMVC), 2019, Cardiff, UK, Accepted as Spotlight

- C2 S. Park*, and S. Choi. "PP-VTON: Pose-Preserving Image-based Virtual Try-On Network" Korea Software Congress (KSC), 2019, Pyeongchang, South Korea
- C3 S. Park*, K. Kim*, J. Lee, J. Choo, J. Lee, S. Kim, and E. Choi. "Vid-ODE: Continuous-Time Video Generation with Neural Ordinary Differential Equation"

AAAI Conference on Artificial Intelligence (AAAI), 2021, Virtual, Accepted

C4 S. Choi*, S. Park*, M. Lee*, and J. Choo. "VITON-HD: High-Resolution Virtual Try-On via Misalignment-Aware Normalization"

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

C5 T. Kim*, C. Chung*, S. Park*, G. Gu, K. Nam, W. Choe, J. Lee and J. Choo. "K-Hairstyle: A Large-scale Korean Hairstyle Dataset for Virtual Hair Editing and Hairstyle Classification"

IEEE International Conference on Image Processing (ICIP), 2021, Anchorage, USA, Accepted

WORKSHOP PAPERS

W1 S. Kim*, *S. Park**, S. Chung*, J. Lee, Y. Lee, H. Kim, Mr Prabhat, and J. Choo. "Focus and track: pixel-wise spatio-temporal hurricane tracking"

ICML 2019 Workshop Climate Change: How Can Al Help?, 2019, California, USA

W2 S. Kim*, *S. Park**, S. Chung*, J. Lee, Y. Lee, H. Kim, Mr Prabhat, and J. Choo. "Learning to Focus and Track Hurricanes"

NIPS 2019 Workshop Tackling Climate Change with Machine Learning, 2019, Vancouver, Canada

W3 S. Park*, K. Kim*, S. Kim*, J. Lee, J. Lee, J. Lee, and J. Choo. "Hurricane Nowcasting with Irregular Time-step using Neural-ODE and Video Prediction"

ICLR 2020 Workshop Tackling Climate Change with Machine Learning, 2020, Virtual, Accepted as Spotlight

PREPRINTS

P1 K. Kim*, *S. Park**, J. Lee, J. Lee, S. Kim, J. Choo, and E. Choi. "Continuous-Time Video Generation via Learning Motion Dynamics with Neural ODE"

Under review

P2 Y. Kim*, J. Lee*, **S. Park**, H. Lee, and J. Choo. "Missing one child is one too many: Improving face representation of children for finding missing children"

Under review

Work Experience _

Data and Visual Analytics Lab, Korea University

Seoul, S.Korea

Jul. 2018 - Aug. 2019

Undergraduate Researcher

- Hurricane trackingPolyp detection with SSD (Single Shot Multi-box Detector)
- Brain stroke onset time classification with ResNet-3D model

Daumsoft

INTERN

Seoul, S.Korea

Jan. 2018 - Feb. 2018

• Instagram data analysis with object detection and clustering

Teaching Experience _____

Al Workshop Instructor

- Global Startup Academy, instructing Computer Vision & Kaggle Competition, Dec. 2020 Feb. 2021.
- **SK Telecom**, instructing Image generation, Sep. 2020.
- Samsung DS KAIST (AI Expert Program), instructing Image-to-Image translation, Oct. 2020.
- Samsung DS KAIST (Al Expert Program), instructing NLP, Oct. 2019.
- Samsung DS KAIST (Al Expert Program), instructing Computer Vision, Aug. 2019.

TEACHING ASSISTANT

- [Al604] Deep Learning for Computer Vision, Sep. 2020 Dec. 2020.
- [Al602] Advanced Deep Learning, Mar. 2020 Jun. 2020.

Grant and Award

AWARD

• 2017 Qualcomm Innovation Award, Mar. 2018.



Jaegul Choo JCHOO@KAIST.AC.KR

Associate Professor

KAIST