



Ha Junsoo (河俊秀)

Personal Details

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Interests

Deep Generative Models

Unsupervised Representation Learning

Scalable Software Architectures

Cute CLI Tools

Education

Hanyang University (Seoul)

- B.E. in Software, Mar 2013 - Apr 2020 (expected)
- B.S. in Mathematics, Aug 2014 - Apr 2020 (expected)

Publications

A Neural Dichlet Process Mixture Model for Task-Free Continual Learning

Soochan Lee, **Junsoo Ha**, Dongsu Zhang, Gunhee Kim

International Conference on Learning Representations (ICLR), 2020.

Harmonizing Maximum Likelihood with GANs for Multimodal Conditional Generation

Soochan Lee, **Junsoo Ha**, Gunhee Kim

International Conference on Learning Representations (ICLR), 2019.

Research Experience

SNU Vision & Learning Lab Seoul, Korea. Dec 2017 - Now

Undergraduate Research Intern

Work Experience

LG Electronics Inc. Seoul, Korea. Jul 2014 - Aug 2014

Software Development Intern

Nexol System Inc. Seoul, Korea. Jan 2015 - Mar 2015

Software Development Intern

Geopia Seoul, Korea. Apr 2015 - Feb 2017 (Substitute of Mandatory Military Service)

Full-Stack Software Developer

Buzzni Seoul, Korea. Mar 2017 - July 2017

Backend Software Engineer

Honors & Awards

Silver Prize *25th Samsung Human-Tech Paper Award*, 2019

Distinguished Service Award *Hanyang University*, 2019

Skills

Machine Learning:

- PyTorch, TensorFlow, Keras
- NumPy, SciPy, Scikit-Learn

Backend | Python:

- Django, Flask, SQLAlchemy, Celery

- asyncio, Crossbar, Autobahn,

Frontend | JavaScript:

- Backbone, React, Redux, Electron, Autobahn
- ES6/7, Webpack, Immutable

Database:

- MySQL, PostgreSQL, SQLite
- Redis, RabbitMQ

DevOps:

- Bash, Git, GNU Make, Docker
- Travis CI, Coveralls, Fabric, AWS, Nginx

Paper Implementations

pytorch-deep-generative-replay: Continual Learning with Deep Generative Replay, NIPS 2017 [\[link\]](#)

pytorch-wgan-gp: Improved Training of Wasserstein GANs, arxiv:1704.00028 [\[link\]](#)

pytorch-splitnet: SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization, ICML 2017 [\[link\]](#)

pytorch-ntm: Neural Turing Machines, arxiv:1410.5401 [\[link\]](#)

pytorch-memn2n: End-To-End Memory Networks, NIPS 2015 [\[link\]](#)

pytorch-ewc: Overcoming Catastrophic Forgetting, PNAS 2017 [\[link\]](#)

pytorch-vae: Auto-Encoding Variational Bayes, arxiv:1312.6114 [\[link\]](#)

pytorch-wrn: Wide Residual Networks, BMVC 2016 [\[link\]](#)

tensorflow-infogan: InfoGAN: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets, NIPS 2016 [\[link\]](#)

tensorflow-wgan: Wasserstein GAN, arxiv:1701:07875 [\[link\]](#)

tensorflow-dcgan: Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks, ICLR 2016 [\[link\]](#)

Open Sources

django-record: Records snapshot of Django model instances on their updates

backbone.csrf: Configure X-CSRFToken header for all Backbone sync requests

dotfiles: UNIX philosophy compliant environment files

news: Asynchronous web subscription engine written in asyncio and aiohttp