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Personal Details

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Interests

- Deep Generative Models
- Generalization in Deep Neural Networks
- Free and Open Source Softwares
- Scalable Software Architectures
- Functional Languages
- CLI Tools

Education

Hanyang University (Seoul)

- *B.E. in Software, May 2013 - Dec 2020 (expected)*
- *B.S. in Mathematics, Aug 2014 - Dec 2020 (expected)*
- *B.S. in Physics, Oct 2018 - Dec 2020 (expected)*

Publications

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 Delveopment Intern

Nexol System Inc. Seoul, Korea. Jan 2015 - Mar 2015
Software Development Intern

Geopia Seoul, Korea. Apr 2015 - Feb 2017 (Substitue of Mandatory Military Service)
Full-Stack Software Developer

Buzzni Seoul, Korea. Mar 2017 - July 2017 Backend Software Engineer

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 / MQ :

- 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

dl-papers: Deep Learning papers which enlightened me

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 asnycio and aiohttp