Seungheon Doh

seungheon.doh@gmail.com

blog • google scholar • github

Research Interest

Music Informational Retrieval, Multi-Modal Retrieval, Deep Learning

Publications

EMOPIA: A Multi-Modal Pop Piano Dataset For Emotion Recognition and Emotion-based Music Generation
Hung, Hsiao-Tzu and Ching, Joann and **Doh, Seungheon** and Kim, Nabin and Nam, Juhan and Yang, Yi-Hsuan

Proceedings of the 22nd International Society for Music Information Retrieval Conference (ISMIR), 2021

Music Playlist Title Generation: A Machine-Translation Approach
Seungheon Doh, Junwon Lee, Juhan Nam

2nd Workshop on Natural Language Processing for Music and Spoken Audio (NLP4MusA), 2021

Million Song Search: Web Interface for Semantic Music Search Using Musical Word Embedding
Seungheon Doh, Jongpil Lee, Juhan Nam

Late Breaking Demo in the 22st International Society for Music Information Retrieval Conference (ISMIR), 2021

Musical Word Embedding: Bridging the Gap between Listening Contexts and Music
Seungheon Doh, Jongpil Lee, Tae Hong Park, and Juhan Nam

Machine Learning for Media Discovery Workshop, International Conference on Machine Learning (ICML), 2020

TräumerAI: Dreaming Music with StyleGAN
Dasaem Jeong, **Seungheon Doh**, Taegyun Kwon

Workshop on Machine Learning for Creativity and Design, Neural Information Processing Systems (NeurIPS), 2020

Education

Korea Advanced Institute of Science and Technology (KAIST)	2021 - present

Ph.D Student in Graduate School of Culture Technology
Music and Audio Computing Lab (Advisor: Juhan Nam)

Korea Advanced Institute of Science and Technology (KAIST)	2019 - 2021

MSc. in Graduate School of Culture Technology
Music and Audio Computing Lab (Advisor: Juhan Nam)

Ulsan National Institute of Science and Technology (UNIST)	2014 - 2019

B.S. in School of Business administration Industrial Design
Academic Performance Scholarship Recipient for every semester

Industry Experience

ByteDance	Jul 2021 – Present

Mountain View, United States
Research Intern in Speech, Audio & Music Intelligence Team (Advisor: Keunwoo Choi, Minz Won)

Advising & Teaching Activity

- Mentor, Junwon Lee - Electronic Engineering, KAIST (Jun 2021 - Nov 2021)
- Mentor, Hounsu Kim - Mechanical Engineering, KAIST (Dec 2020 - Mar 2021)
- Mentor, Nabin Kim - CS/Music, Georgia Institute of Technology (Dec 2020 - Mar 2021)
- TA, GCT634 Musical Applications of Machine Learning (Sep 2021)
- TA, GCT731 Topics in Music Technology: Cognitive Science of Music (Sep-2020)
- TA, GCT576 Social Computing, KAIST GSCT (Sep 2019)

Experience

- Korean translator, NYU Deep Learning DS-GA 1008, Yann LeCun Alfredo Canziani (Sep 2020)

- Visiting Student, Music and Audio Research Laboratory, New York University, United States (Feb 2020)
- Pycon Tutorial: Music and Deep Learning, PyconKR (Aug 2019)

LANGUAGES & SKILL & INTERESTS

- English(fluent), Korean(native)
- Python (Pytorch, Tensorflow), HTML/CSS, React.js, C++
- Exhibition, Graphic Design, Prototyping & Making, Piano, Movie, Crossfit, Lifting