SEUNGHEON DOH

seungheon.doh@gmail.com
blog • google scholar • github

RESEARCH INTEREST

Music Informational Retrieval, Cross-Modal Retrieval, Multi-Modal Deep Learning

PUBLICATIONS

Speech-to-Music Cross-Modal Retrieval Using Emotion Labels

Seungheon Doh, Minz Won, Keunwoo Choi, Juhan Nam

Proceedings of the 23rd Conference of the International Speech Communication Association (Interspeech), 2022 (submit)

Hi, KIA: A Speech Emotion Recognition Dataset for Wake-Up Words

Taesu Kim*, **SeungHeon Doh***, Gyunpyo Lee, Hyung seok Jun, Juhan Nam, Hyeon-Jeong Suk (*equally contribution)

Proceedings of the 23rd Conference of the International Speech Communication Association (Interspeech), 2022 (submit)

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

EXPERIENCE

ByteDance   Jul 2021 – Jan 2022
Remote (due to COVID-19)
Research Intern in Speech, Audio & Music Intelligence Team (Advisor: Keunwoo Choi, Minz Won)

Music and Audio Research Laboratory   Dec 2019 - Feb 2020
New York University, United States
Visiting Student (Collaborate with Prof. TaeHong Park)

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)

SERVICE & TALK

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