Yoojin Kim

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Education

Korea Advanced Institute of Science and Technology (KAIST)

Aug. 2018 - Present

2019 - Present

M.S. in Graduate School of Culture Technology, Music and Audio Computing Lab.

Yonsei University, Seoul

B.S. in Computer Science

Mar.2014 - Aug.2018 3.76/4.3 (4.02/4.3 in major)

Research Interests

Data Science, Machine Learning, Deep Learning, Music Information Retrieval, Music Perception and Cognition

Publications

Papers

- VirtuosoNet: A Hierarchical RNN-based System for Modeling Expressive Piano Performance D.Jeong, T.Kwon, Y.Kim, K.Lee and J.Nam

 Proceedings of the 20th International Society for Music Information Retrieval Conference (ISMIR), 2019
- Graph Neural Network for Music Score Data and Modeling Expressive Piano Performance D.Jeong, T.Kwon, Y.Kim, and J.Nam

 Proceedings of the 36th International Conference on Machine Learning (ICML), 2019
- Score and Performance Features for Rendering Expressive Music Performances D.Jeong, T.Kwon, <u>Y.Kim</u>, and J.Nam Proceedings of the Music Encoding Conference, 2019

Patents

• Method and Device for Multi-style Conditioned Expressive Piano Performance Rendering J.Nam, D.Jeong, T.Kwon, Y.Kim, (Filing) 10-2020-0070101, 2020

Academic Talk

Domestic

 Analysis of Performance Features According to Emotional Expression in Classical Piano Music <u>Y.Kim</u>, J.Park, D.Jeong, T.Kwon, and J.Nam *Korean Society of Music Perception and Cognition*, 2020

Projects

Music Data Sentiment Analysis

$Samsung \ Science \ \mathcal{C} \ Technology \ Foundation, \ Music \ and \ Audio \ Computing \ Lab, \ KAIST$	Advisor: Juhan Nam
Expressive Performance Generation	2019
$Samsung\ Science\ \ \ \ Technology\ Foundation,\ Music\ and\ Audio\ Computing\ Lab,\ KAIST$	Advisor: Juhan Nam
Data Oversampling for Session-based Purchase Prediction & Explanation	n 2018
Data Intelligence Lab, Yonsei University	Advisor: Seung-won Hwang
Haptic Retargeting using Sensors and VR Device	2017
Computer Graphics and Applications Lab, Yonsei University	Advisor: In-kwon Lee

Awards and Honors

VR/AR Grand Challenge Award

Korea VR Festival 2019

High Honor Award 2018, 2017

Academic Achievement Award for high grade students, Yonsei University

The National Scholarship for Science and Engineering

2017

National scholarship for undergraduates with strong academic performance in science and engineering

Experiences

Exhibition

• Deep Space Music in Ways of Seeing NOS Visuals and KAIST Mac Lab, Daejeon Museum of Art Special Exhibition, Nov 2019 - Jan 2020

Teaching Experience

- Instructor, Data Science using Python, KAIST IT Academy, Oct 2020 Dec 2020
- Instructor, C++ language, KAIST IT Academy, Dec 2019 Mar 2020
- Instructor, C language, KAIST IT Academy, Jun 2019 Dec 2019
- TA, GCT501 Introduction to Culture Technology, KAIST GSCT, Spring, Fall 2019
- TA, CS101 Introduction to Programming, KAIST CS, Fall 2018

Interns

- Research Intern, Computer Graphics and Applications Lab, Yonsei University, Summer 2017
- Research Intern for Data Analysis, Yonsei University Severance Hospital, Summer 2015

Technical Skills

Programming: Python, C/C++, Java

Data Science: PyTorch, Tensorflow, pandas, scikit-learn, MySQL

Developer Tools: Git, Docker

Extra-Curricular Activities

Amateur Cellist 2019 - Present

Festival Ensemble Gaudium

Amateur Violist 2014 - 2018

Yonsei Amateur Orchestra principal in 2015

Reference

Juhan Nam

Associate professor, Graduate School of Culture Technology, KAIST (contact)

2019