HSIAO-TZU HUNG

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Currently a first-year graduate student in computer science. Has two-year full-time experience in deep learning and multimedia information retrieval, and published three related papers. An extremely communicative person and a team player.

EDUCATION

National Taiwan University *Start from March 2020*
M.S @ Computer Science
National Tsing Hua University *September 2010 - June 2014*
B.S @ Physics

PROGRAMMING SKILLS

Machine learning: Python, PyTorch, TensorFlow, Scikit-Learn
Engineering: Git, Linux, MongoDB, Docker, verilog, C++ (k8s)

WORK EXPERIENCE

Taiwan AI Labs, Taiwan Feb. 2019 - Feb. 2020
Full-time Machine Learning Research Internship

· Build a basic Jazz melody automatic generation system, paper published.
· Build a 200,000+ music dataset
· Build a system to classify emotion of music automatically, paper published.
· Enrich the interaction between Yating(the music AI) and user: Image-conditional music generation

Institute of Information Science, Academia Sinica, Taipei July 2018 - current
Research Assistant

· Music automatic generation
· General understanding about audio processing
· Basic understanding about speech processing and natural language processing.

PUBLICATIONS

Hsiao-Tzu Hung, Chung-Yang Wang, Yi-Hsuan Yang, Hsin-Min Wang, "Improving Automatic Jazz Melody Generation by Transfer Learning Techniques," in Proc. Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC) 2019, accepted.

Hsiao-Tzu Hung, Yu-Hua Chen, Maximilian Mayer,Michael Vtter, Eva Zangerle, Yi-Hsuan Yang "MediaEval 2019 Emotion and Theme Recognition task: A VQ-VAE Based Approach", in MediaEval Benchmarking Initiative for Multimedia Evaluation (MediaEval) 2019, two-page work note paper

Wen-Yi Hsiao, Yin-Cheng Yeh, Yu-Siang Huang, Chung-Yang Wang, Jen-Yu Liu, Tsu-Kuang Hsieh, **Hsiao-Tzu Hung**, Jun-Yuan Wang, and Yi-Hsuan Yang,"Jamming with Yating: Interactive demonstration of a music composition AI", ISMIR demo paper (non-peer reviewed two-page extended abstract) 2019 (ISMIR'19-LBD)

COURSE PROJECTS

Dealing with data-imbalanced problem in chest X-ray COVID-19 prediction model
3D-morphing using Three.js