Conference

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Demo

Ashis Pati

Work Experience about Ph.D., Music Tech **Georgia Tech Georgia Tech** | Graduate Research Assistant, Music Informatics Group 2016-2020 Atlanta, USA +1-(404)-819-5317 Developed tools & methods for automatic music performance assessment. Jun-Dec'19 **Apple, Inc.** | Ph.D. Intern, Advanced Computation Group Portland, USA apati3@gatech.edu Designed and developed deep neural networks for vocal detection in polyphonic music. ashispati.github.io May-Aug'18 **Sony CSL** | Research Intern, Music Team Paris, France in /in/ashispati Developed **deep learning**-based models for **music inpainting** on symbolic music data. (2) /ashispati **Doppler Labs, Inc.** | Audio Intern, Product Development May-Aug'17 San Jose, USA Designed & developed a prototype self-administered hearing test for mobile devices. programming May-Aug'16 **Doppler Labs, Inc.** | DSP Research Intern, Audio Engineering Group San Francisco, USA python, C/C++, matlab Developed algorithms & tools for automatic audio event detection in field recordings. 2011-2015 ITC Limited | Assistant Project Manager Hyderabad, India frameworks Managed large-scale energy & sustainability projects for the Paperboards Division. pyTorch, tensorflow, JUCE, weka **Education** interests 2015-2020 Georgia Institute of Technology | CGPA: 4.0/4 Georgia Tech music informatics Ph.D., Music Technology, with minor in Artificial Intelligence & Deep Learning comp. audio analysis **Indian Institute of Technology, Kanpur** | CGPA: 8.3/10 machine learning 2007-2011 IIT Kanpur **B.Tech.**, **Electrical Engineering**, focus on Digital Signal & Image processing deep learning generative models Publications (selected) comp. creativity teaching Attribute-based Regularization of Latent Spaces for Variational Auto-Encoders instructor Neural Computing and Applications, 2020 deep learning for music dMelodies: A Music Dataset for Disentanglement Learning Conference teaching assistant 21st International Society for Music Information Retrieval Conference (ISMIR). 2020 comp. music analysis **An Interdisciplinary Review of Music Performance Analysis** digital signal proc. Transactions of the International Society for Music Information Retrieval 3.1, pp. 221-245, 2020

service reviewer

IEEE TALSP **ISMIR Applied Sciences** Web Audio prog. committee Al Music Creativity red judge

coursework

music comp. music analysis music perception computer science deep learning

IBM Watson Al X-Prize

pattern recognition cognitive science genetic algorithms signal processing audio software engg. digital signal proc. statistical signal proc.

Score-informed Networks for Music Performance Assessment

21st International Society for Music Information Retrieval Conference (ISMIR). 2020

Learning to Traverse Latent Spaces for Musical Score Inpainting

20th International Society for Music Information Retrieval Conference (ISMIR). 2019

Latent Space Regularization for Explicit Control of Musical Attributes

ICML Workshop on Machine Learning for Music Discovery Workshop (ML4MD). 2019

Explicitly Conditioned Melody Generation: A Case Study with Interdependent RNNs

7th International Workshop on Musical Metacreation (MUME). 2019

A Model-Agnostic Web Interface for Interactive Music Composition by Inpainting

Neural Information Processing Systems (NeurIPS). 2018

Assessment of Student Music Performances Using Deep Neural Networks

Applied Sciences 8.4, p. 507, 2018

A Dataset and Method for Electric Guitar Solo Detection in Rock Music

AES International Conference on Semantic Audio. 2017

Awards

2020	Best Reviewer Award awarded to top rated reviewers	21st ISMIR
2011	IIT Kanpur Excellence Award art & cultural activities	IIT Kanpur
2009	Academic Excellence Award awarded to top 5% students in the batch	IIT Kanpur
2005	KYPY Fellowship awarded for strong aptitude in science & research	Govt. of India
2005	National Talent Search Scholarship awarded for high academic talent	NCERT