VISHAL SUNDER

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RESEARCH INTERESTS

Spoken Dialog Systems, Spoken Language Understanding, Speech Understanding, Natural Language Processing

EDUCATION

PhD in Computer Science *August 2019 - Present*
The Ohio State University *Overall CPI: 3.9/4.00*
Advisor: Dr. Eric Fosler-Lussier

Bachelor of Technology in Electrical Engineering *May 2016*
Indian Institute of Technology, Banaras Hindu University (IIT-BHU) *Overall CPI: 8.35/10*

PROFESSIONAL RESEARCH EXPERIENCE

TCS Research, New Delhi, India *July 2016 - July 2019*
Researcher
Deep Learning and Artificial Intelligence group

IBM Research, NY, USA *May 2021 - August 2021*
Research Intern
Speech Technologies group

PUBLICATIONS

V. Sunder, S. Thomas, HKJ. Kuo, J. Ganhotra, B. Kingsbury, E. Fosler-Lussier, Towards end-to-end integration of dialog history for improved spoken language understanding. *To appear, ICASSP-2022.*

P. Serai, **V. Sunder**, E. Fosler-Lussier. Hallucination of speech recognition errors with sequence to sequence learning. [Paper] *IEEE/ACM Transactions on Audio, Speech and Language Processing.*

V. Sunder, E. Fosler-Lussier. Handling Class Imbalance in Low-Resource Dialogue Systems by Combining Few-Shot Classification and Interpolation. *In proc. ICASSP 2021.* [Paper] [Code]

V. Sunder, A. Srinivasan, L. Vig, G. Shroff, R. Rahul: One-shot information extraction from document images using neuro-deductive program synthesis. *In proc. NeSy workshop, IJCAI 2019.* [Paper]

G. Gupta,**V. Sunder**, R. Prasad, G. Shroff. CRESA: A Deep Learning Approach to Competing Risk Recurrent Event Survival Analysis. *In proc. PAKDD-2019.* [Paper]

V. Sunder, L. Vig, A. Chatterjee, G. Shroff. Prosocial or Selfish? Agents with different behaviors for Contract Negotiation using Reinforcement Learning. *In proc. ACAN workshop, IJCAI 2018.* [Paper]

V. Sunder, M. Yadav, L. Vig, G. Shroff. Information Bottleneck Inspired Method for Chat Text Segmentation. *In proc. IJCNLP 2017.* [Paper]

RELEVANT COURSES

Computer Science: Advanced Artificial Intelligence, Data Mining, Advanced Algorithms, Speech and Language Processing, Foundations of Programming Languages, Computer Architecture.

Mathematics: Mathematics I (Calculus), Mathematics II (Linear Algebra), Numerical Methods, Optimization Techniques.