Appendix B

Venue Recommendation in DeepRec (Examples)

We have provided the top 15 venue recommendations by our DeepRec model for two research papers in appendix B.1. In the first example titled *Multiscale AM-FM Demodulation and Image Reconstruction Methods With Improved Accuracy mining* is published in *IEEE Transactions on Image Processing* and recommended at the top by our model. The paper title indicates that it is related to Image Processing, multimedia processing, and Signal Processing. Out of 15 recommendations, 11 venues are for image, and signal processing and rest are related to mathematical analysis and scientific-computing; hence all the recommended venues are relevant to the provided title and abstract. This first recommendation has an impact factor of 9.34, H5-index of 113, and an article influence score of 2.788, a very high-quality venue. Our model can gather over-all semantic information of title+abstract. Our model can focus on specific words in the title and abstract such as *image reconstruction*, $AM-FM modulation$ due to the combination of architecture CNN, LSTM, and self-attention.

The second paper is titled *Musical Source Clustering and Identification in Polyphonic Audio*. From its title and abstract, it is clear that paper mainly discusses clustering, pattern recognition, audio, and multimedia processing. Our model recommends *IEEE Transactions on Audio, Speech, and Language Processing*, which is also the top priority of its authors. It is a high-quality venue with an impact factor of 3.398 and H5-index of 57. Out of 15 recommendations, 14 venues are based on image processing, signal processing, and pattern recognition. From these above two examples, we can infer that the proposed

model provides highly relevant and quality venues based on title and abstract. When we take a closer look at the abstract of this paper, they discuss the clustering of audio signals using semi-supervised learning. Hence, our model can extract overall semantic information of the abstract with a focus on most-relevant words leveraging properties of CNN, and LSTM.

B.1 DeepRec Recommendations

Title1: *Multiscale AM-FM Demodulation and Image Reconstruction Methods With Improved Accuracy*

Recommendations in **decreasing** order of relevance:

- IEEE Transactions on Image Processing
- Multiscale Modeling & Simulation
- International conference on image processing
- Siam Journal on Imaging Sciences
- SIAM Journal on Scientific Computing
- Journal of Mathematical Imaging and Vision
- Siam Journal on Applied Mathematics
- International conference on acoustics, speech, and signal processing
- Proceedings of SPIE
- IEEE Transactions on Signal Processing
- International Journal of Computer Vision
- Signal Processing
- arXiv: Numerical Analysis
- Siam Journal on Mathematical Analysis
- International symposium on biomedical imaging

Title2: *Musical Source Clustering and Identification in Polyphonic Audio* Recommendations in **decreasing** order of relevance:

- IEEE Transactions on Audio, Speech, and Language Processing
- ACM multimedia
- IEEE Journal of Selected Topics in Signal Processing
- International conference on acoustics, speech, and signal processing
- International conference on multimedia and expo
- Signal Processing
- Neurocomputing
- IEEE Transactions on Multimedia
- International symposium/conference on music information retrieval
- Pattern Recognition Letters
- IEEE Transactions on Speech and Audio Processing
- Speech Communication
- International Journal of Neural Systems
- Biomedical Signal Processing and Control
- Multimedia Tools and Applications