Conference full Name, date of the Conference, Proceedings of the conference, Volume number, page number, date, publisher of the proceedings , DOI

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ICT Analysis and Applications. Lecture Notes in Networks and Systems, vol 154. (pp. 593-603), January 2021, Springer, Singapore, [DOI: 10.1007/978-981-15-8354-4\_59](https://doi.org/10.1007/978-981-15-8354-4_59)

**A Deep Learning Generative Approach for Speech-to-Scene Generation**

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**Abstract:**

Visualization can enhance the power of our subconscious mind. Research has proven that visualization is a very effective medium for communication since it enables humans to remember insights for a longer duration. A speech input visualizer would thus be of utmost importance because of its wide-ranging applications in areas such as Education, Engineering, Defence, Art, Game Development, Architecture, and so on. This paper introduces a real-time efficient “Speech-to-Scene” Generator using a deep learning approach. A novel combination of HTML speech recognition API and Text Conditioned Auxiliary Classifier Generative Adversarial Network has been proposed to overcome this problem. This model has been trained on a car’s data set consisting of 16 distinct classes. Additionally, this model can also adapt to various other data sets. The generated images were evaluated with Inception Score and Multi-Scale Structural Similarity Index (MS-SSIM) to compare with state-of-the-art image generation technologies.