Network Architecture Search (NAS)

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***Abstract*—There is no question regarding the impact, that deep learning has brought onto society and science. Additionally, there has been significant progress lately within the field and it's application onto a variety of tasks, largely due to either improvements to existing architectures or novel ones alltogether. The process of developing state of the art architectures is not a simple one and involves not only a large deal of domain expertise, but also intuition and some level of trial and error. This is not ideal as it is both time consuming and an error-prone. This, among other reasons, has motivated the field of *neural architecture search* and the different methods of its application.**

I. Introduction

In general a scientific paper starts with an introduction to the topic.

II. State of the Art

In this section an analysis of the available literature on the topic is done. This section may be split or subdivided into several sections or subsections.

A. Subsection Heading Here

Subsection text here.

1) Subsubsection Heading Here: Subsubsection text here.

III. Conclusion

Put the conclusions of the work here. The conclusion is like the abstract with an additional discussion of open points. Look a citation [1] here.

References

[1] M. Wistuba, A. Rawat, and T. Pedapati, "A survey on neural architecture search," *arXiv preprint arXiv:1905.01392*, 2019.