Exercícios Escrita Científica

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Este material complementa o guia de escrita científica. A ideia aqui é exercitar os conceitos visto nos vídeos.

# 1 Questões

Identifique potenciais melhorias e problemas nas sentenças abaixo. Por se tratar de escrita, salvo erros gramaticais, não existe uma forma exata ou fórmula fechada para melhorar os exemplos abaixo; portanto, não existe um único gabarito possível.

1. The experiments are conducted on CIFAR-10 and ImageNet datasets, using different versions of the ResNet architecture.
   - We conduct experiments on CIFAR and ImageNet, using different versions of the ResNet architectures.
   - We conduct experiments on CIFAR and ImageNet, using different versions of ResNet56/110.
2. The methodology of this research is organized as follows. First, [...]. Second, [...], Finally, [...].
   - Our methodology is organized as follows. First, [...]. Second, [...], Finally, [...].
   - Our methodology is the following. First, [...]. Second, [...], Finally, [...].
3. A key component in neural networks is the loss function, which plays a crucial role in the model's learning effectiveness.
   - A key component in neural networks is the loss function, as it plays a crucial role in the learning effectiveness of the models. 
   - Loss functions are a key component in neural networks, as they play a crucial role in the learning effectiveness of the models. 
   - Loss functions comprise a key component in neural networks, as they play a crucial role in the learning effectiveness of models. 
   - Loss functions comprise a key component in neural networks, as they play a crucial role in the learning effectiveness of models.  ?
4. Os resultados estão apresentados na Figura 1.
   - Figura 1 apresenta os resultados.
5. We consider experiments with different models, as presented in Table 1.

- Table 1 summarizes the models we consider.

6. The analysis of rock and blade images plays a fundamental role in several tasks in the field of geosciences.
   - Rock and blade image analysis plays a fundamental role in several tasks in the field of geosciences.
   - Rock and blade image analysis plays a fundamental role in geoscience-related tasks.
7. Our incremental PLS achieves superior performance in both accuracy and execution time for estimating the projection matrix, which is an important requirement for time-sensitive and resourceconstrained tasks.
   - .[...] projection matrix. These advantages are crucial for time-sensitive and resource-constrained tasks.
   - .[...] projection matrix. These benefits play an important role for time-sensitive and resource-constrained tasks.
   - .[...] projection matrix. These benefits play an important role for time- and resource-constrained tasks.
8. .[...] For this purpose, we apply a process similar to Figure 4.3, which is the following.
   - .[...] For this purpose, similar to Figure 4.3, we apply the following process.
9. The accuracy of the resulting architecture (trained from scratch) can be used to estimate its generalization ability (i.e., transferability), which is a desirable property in NAS.
   - We can use the accuracy of the resulting architecture (trained from scratch) to estimate a desirable property in NAS: generalization
   - We can use the accuracy of the resulting architecture (trained from scratch) to estimate a fundamental property in NAS: generalization
10. A poda é uma maneira efetiva para melhorar o custo computacional do deep learning.
    - Técnicas de poda são uma maneira efetiva para melhorar o custo computacional do deep learning.
    - Técnicas de poda compreendem estratégias efetivas para melhorar o computacional envolvendo deep learning.
11. Our proposed method can be explained as a sequence of steps.
    - The proposed method can be explained as a sequence of steps.
    - Our method can be explained as a sequence of steps.
    - The steps of our method are the following.
12. Tables of accuracies across each task are provided in Appendix A.6.
    - Appendix A.6 provides tables of accuracies for each task.

- Tables 1, 2 and 3 in Appendix A.6 show the accuracy across each task.

13. All code and models were implemented in PyTorch.

    - We implement codes and models in Pytorch.

14. The technique explored consists of finding coupled structures that can be removed without significantly compromising the model.

    - The technique consists of identifying less important coupled structures to remove them without significantly compromising the model. (By Lucas Lauton).
    - The technique involves identifying and removing less important coupled structures without significantly compromising the model.