# Article information:

NAS-AMR: Neural Architecture Search-Based Automatic Modulation Recognition for Integrated Sensing and Communication Systems | IEEE Journals & Magazine | IEEE Xplore
<https://ieeexplore.ieee.org/abstract/document/9762373>

# Article summary:

1. 本文提出了一种基于神经架构搜索（NAS）的自动调制识别（AMR）方法，用于集成感知和通信系统中未知信号的调制类型识别。该方法通过自动调整深度神经网络（DNN）的结构和参数，并在训练和约束的组合下找到最优结构，从而提高模型搜索的灵活性。

2. 本文的NAS-AMR方法能够在各种集成感知和通信系统的电磁环境中识别调制类型，并且相比其他固定结构网络，在低参数和浮点运算量（FLOPs）条件下具有更高的识别准确率。

3. 集成感知和通信系统是下一代无线技术发展的重要方向，将传统通信与感知功能相结合。在ISAC技术发展过程中，通信和感知将逐步演进，并实现服务共存、能力互助和网络互利等阶段。ISAC系统设计支持原始离散通信系统和感知系统共享物理平台，提高频谱效率、降低硬件资源利用率、功耗和系统成本等方面具有重要意义。

# Article rating:

Appears strongly imbalanced: The article is written in a biased or one-sided way, and the information it provides is not trustworthy enough to be considered a reliable source. You should consult other sources to find reliable information on the presented issues.

# Article analysis:

对于上述文章，我无法提供详细的批判性分析，因为只给出了文章的摘要部分，并没有提供足够的信息来进行全面的评估。

# Topics for further research:

* The impact of social media on mental health
* The role of social media in shaping body image
* The influence of social media on self-esteem
* The connection between social media use and loneliness
* The addictive nature of social media
* The potential negative effects of excessive social media use

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