# Article information:

Full article: MS\_HGNN: a hybrid online fraud detection model to alleviate graph-based data imbalance  
<https://www.tandfonline.com/doi/full/10.1080/09540091.2023.2191893>

# Article summary:

1. 移动支付的普及和发展给在线交易带来了便利，但也增加了欺诈活动的风险。传统的欺诈检测模型往往无法满足实时性、稳定性和可解释性等要求。

2. 图神经网络（GNN）模型在欺诈检测中表现出色，但很少关注数据不平衡问题。数据不平衡包括类别不平衡、特征不平衡和关系不平衡，这些问题直接影响分类器的准确性。

3. 为了解决数据不平衡问题，提出了一种混合在线欺诈检测模型MS\_HGNN。该模型通过邻居采样方法解决类别不平衡问题，并使用特征信息提取器获取距离分数。同时，采用强化学习确定每个关系的样本权重，并使用采样权重对整个图进行高阶邻居采样。实验证明该模型在在线欺诈检测中具有较好的效果。

# 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，因为只提供了文章的标题和部分引言，并没有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
* Negative effects of excessive social media use
* Comparison of social media usage across different age groups
* Strategies to mitigate the negative effects of social media
* Research on the relationship between social media and self-esteem
* The role of social media in promoting unrealistic beauty standards

# Report location:

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