[Intelligence Note or Reporting Highlights]

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**USA**

**KMF\_Memo#6\_Hwasong 18 Capabilities**

BLUF: Researchers at Vanderbilt University have developed a blind deep learning steganography sanitization method called DM-SUDS that effectively removes hidden information from images while maintaining image quality. The approach outperforms previous sanitization methods and shows promise for various applications.  
  
In more detail, the researchers introduced DM-SUDS, a novel method that utilizes a diffusion model framework to sanitize universal and dependent steganography. Through blind deep learning, DM-SUDS successfully eliminates hidden information from images while preserving image quality. Compared to existing sanitization methods, DM-SUDS improves image preservation metrics by up to 71.32%, 22.43%, and 17.30%.  
  
The researchers conducted experiments to analyze the impact of different diffusion steps on the performance of DM-SUDS. They also evaluated the method on the ImageNet dataset, demonstrating its effectiveness in various scenarios and applications.  
  
Overall, DM-SUDS presents a significant advancement in steganography sanitization, providing a reliable and efficient method for removing hidden information from images while maintaining their visual quality.

**[Analyst Comment]**