**Editor’s Comment:**

This paper provides a comprehensive overview of how deep learning, particularly convolutional neural networks (CNNs), is being used to improve the spatial resolution of multispectral remote sensing imagery by fusing it with higher-resolution panchromatic imagery. Briefly:

* **Remote Sensing Focus:** Addresses a critical task in processing satellite and aerial imagery.
* **Deep Learning Application:** Surveys the landscape of CNN-based methods for pan-sharpening.
* **Spatial Resolution Enhancement:** The core goal of pan-sharpening is to create high-resolution multispectral images.
* **Technique Categorization:** Categorizes different deep learning architectures and approaches used in this domain.
* **Performance Evaluation:** Discuss common evaluation metrics and compare the effectiveness of various techniques.

The author addressed the main concerns from the reviews, the revised version of the manuscript appears to be good. It looks READY for publication.

**Editor’s Details:**

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