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Synthetic Aperture Radar (SAR) Meets Deep Learning

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Message from the Guest Editors

Synthetic aperture radar (SAR) is an important active microwave imaging sensor whose all-day and all-weather working capacity give it an important place in the remote sensing community. Since the United States launched the first SAR satellite, SAR has received much attention in the remote sensing community, e.g., geological exploration, topographic mapping, disaster forecast, and traffic monitoring. It is valuable and meaningful, therefore, to study SAR-based remote sensing applications.

When SAR meets deep learning, should SAR accommodate itself to deep learning, or should deep learning accommodate itself to SAR? The relationship between the two needs further exploration and research. Furthermore, is deep learning really suitable for SAR? The number of SAR samples is far smaller than that of natural optical images. In this case, could we ensure deep networks learn SAR mechanisms deeply?

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Message from the Editorial Board

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