



Synthetic Aperture Radar (SAR) Meets Deep Learning

Guest Editors:

Dr. Tianwen Zhang

School of Information and
Communication Engineering,
University of Electronic Science
and Technology of China,
Chengdu 611731, China

Dr. Tianjiao Zeng

Electrical and Electronic
Engineering, University of Hong
Kong, Hong Kong

Prof. Dr. Xiaoling Zhang

School of Information and
Communication Engineering,
University of Electronic Science
and Technology of China,
Chengdu 611731, China

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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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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