



## Advances in Radar, Optical, Hyperspectral, Infrared, and Sonar Technology: Data Acquisition, Processing, and Applications

Guest Editors:

**Dr. Tianwen Zhang**

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**Dr. Jun Shi**

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**Prof. Dr. Shunjun Wei**

**Prof. Dr. Qingze Zou**

**Prof. Dr. Xiaoling Zhang**

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submissions:

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### Message from the Guest Editors

Recently, a variety of sensors have been widely used in the field of remote sensing. They can complement each other to achieve all-around high-precision observation of the Earth. The radar sensors actively transmit electromagnetic waves, which can penetrate clouds and fog without being affected by light. Optical sensors can capture the color information of ground objects and have a better visual observation effect. Hyperspectral sensors can detect substances with diagnostic spectral absorption characteristics, and can accurately distinguish the types of vegetation cover on the ground, roads, and ground materials, etc., which improves the accuracy and reliability of imaging high quantitative analysis. The infrared sensors are free from electromagnetic interference and can accurately track the thermal target from a long distance, as well as accurately locate and navigate. Sonar sensors can work well under water to realize ocean and river observation. From above, radar, optical, hyperspectral, infrared, and sonar all play an important role in remote sensing.





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### **Prof. Dr. Dongdong Wang**

Institute of Remote Sensing and  
Geographic Information Systems,  
Peking University, Beijing, China

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

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