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Remote Sensing Image Processing and Application

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With continuous advancements in remote sensing technology and methods over the past few decades, scientists have made significant progress in the field of remote sensing image processing. Modern remote sensing systems, including satellite, airborne, UAV, and ground-based platforms, have been continually evolving in terms of data volume, quality, and variety. These technological advancements have led to higher image resolution, broader coverage, and better data quality. The importance of remote sensing technology is reflected in several areas. Firstly, in environmental monitoring, remote sensing technology can continuously monitor natural resources such as forests, oceans, atmosphere, and glaciers, helping scientists study climate change, deforestation, and ocean pollution. In disaster management, remote sensing images can quickly provide detailed information about affected areas, aiding in rescue and recovery efforts. In urban planning and management, remote sensing data provides valuable information for urban expansion, traffic management, and infrastructure development, contributing to sustainable urban planning. Additionally, remote sensing technology allows farmers and managers to monitor crop growth, soil moisture, and pest infestations, providing a scientific basis for agricultural production.



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