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Land Surface Temperature Estimation Using Remote Sensing

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Message from the Guest Editor

Land surface temperature (LST) is a basic determinant of the terrestrial thermal behavior which controls the effective radiating temperature of the Earth's surface. It is an important aspect of climate and biology with a major influence on hydrology, meteorology, and climatology. Over the years, applications of LST have expanded beyond its traditional use as a climate change indicator. It is an important indicator of the redistribution of energy at the land–atmosphere interface, plant water stress, monitoring of drought, land cover/land use change, urban heat island effects, heat stress, epidemiological studies, and so on. Additionally, the retrieval methods have expanded beyond the conventional thermal infrared and microwave with the launch of new generation of hyperspectral sensors such as Infrared atmospheric sounding interferometer (IASI) and cross-track infrared sounder (CrIS).

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Message from the Editorial Board

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