



Monitoring Land Subsidence Using Remote Sensing

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Message from the Guest Editors

Land subsidence represents a growing problem that affects hundreds of millions of people worldwide. The loss of surface elevation can lead to structural damage of buildings and infrastructures, loss of extensive agricultural and/or natural areas, the rise of salt wedges and the regression of coastlines and can have a significant economic and social impact. This negative impact can be further aggravated by climate changes (e.g., sea level rise), in particular in low-lying coastal areas. Land subsidence is also one of the major factors controlling the geomorphological evolution of river basins and deltaic areas, which can host large population centres and extensive productive activities.

Ground deformations monitoring plays a key role in the management of such natural hazard by providing cost-effective solutions for risk mitigation. This Special Issue of *Remote Sensing* is devoted to all topics related to land subsidence monitoring using remote sensing techniques (in particular, but not limited, to InSAR) complemented with ground-based data (e.g., GNSS, precise levelling).





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Message from the Editor-in-Chief

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