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Land Use/Cover Change and Its Impacts on Regional Sustainable Development

Guest Editors:

Dr. Shengbiao Wu

Dr. Xiao Zhang

Dr. Xidong Chen

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Message from the Guest Editors

With the global urbanization and economic development, monitoring and analyzing land use and land cover (LULC) change have become a focal point in many interdisciplinary research fields. Rapid urbanization, agricultural expansion and industrialization have contributed to significant alterations in land use and land cover patterns, often resulting in habitat fragmentation, deforestation and loss of biodiversity. These changes not only directly affect the ecological processes and functions of the affected areas, but also have far-reaching consequences on regional climate, water cycles and carbon sequestration. Moreover, the implications of LULC change on food security, human health and socio-economic well-being of communities cannot be underestimated. In this context, the integration of remote sensing, geographic information systems (GIS) and spatial modeling techniques has emerged as a powerful tool for monitoring, assessing and predicting LULC dynamics and their impacts on regional sustainable development.



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Special Issue



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Prof. Dr. Christine Fürst

Department Sustainable
Landscape Development,
Institute for Geosciences and
Geography, University of Halle,
Halle, Germany

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Land Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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