



Hyperspectral LiDAR Cross Analysis of Landscape Processes and Patterns

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Message from the Guest Editors

Extensive monitoring of land transformations in a context of global change are more and more requested. Coupling hyperspectral images (HSI) and LiDAR data to measure land cover physical and chemical properties is state of the art and capable to tackle these requirements. These can be physical or empirical based fusion of heterogeneous data separated in time or synchronous acquisitions at light path level, LiDAR discrete echo object segmentation of HSI and light path enrichment of HSI by LiDAR full waveform processing or all sort of combined classifications and quantifications approaches.

In general such studies also necessitate the cooperation of many disciplines allowing the extraction of mutually comprehensive parameters which relies on a dialog between sensor designer and land mapping experts. The transposition of methods between disciplines is not trivial. So, we would like to gather in this special issue a large panel of applications illustrating the challenges, interests and benefits of LiDAR Hyperspectral coupling. Compilations of previous works or new methods focusing on the effective combination and impact for applications of such a coupling are very welcomed.





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