Special Issue

Development of Advanced Landfill Methods and Remote Sensing for Landfill Monitoring

Message from the Guest Editor

Satellites, airplanes, balloons, and drones, as the main platforms in remote sensing technology, can be used for the construction of landfill sites, landfill daily work management, and the environmental monitoring of landfill sites and the surrounding environment. By making full use of visible/near-infrared cameras, multispectral imagers, thermal graphic devices, laser scanners, and remote sensors of synthetic aperture radars, it is possible to grasp detailed information from the classification of landfill surface characteristics, surface temperature, plant activity, properties of landfill waste, landfill waste elevation, and landfill waste volume. It is also possible to observe the level of changes by continuously measuring the physical quantity of landfill waste. Another advantage of remote sensing is that historical information for most geographic regions can be obtained. In this Special Issue, we call for papers on practical examples, case studies, and unique utilization methods of remote sensing technology that contribute to the environmentally safe landfill disposal from the construction stage to the completion stage and even after landfill post-closure.

Guest Editor

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Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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