# Special Issue

## UAV for High-Resolution Salt Marsh Monitoring

### Message from the Guest Editors

Salt marshes are transitional zones between ocean and land, and act as natural buffers against coastal hazards. The survival of salt marshes is governed by the rate of organic and inorganic deposition, which strongly depends on hydrodynamics, sediment supply, biological activity, and vegetation characteristics. Vegetation favors the dissipation of wind waves and storm surges. Animals disturb soil and vegetation with activities such as grazing and burrowing. For these reasons, an accurate description of these processes is critical for their management and conservation. In the past years, UAVs have started to be used to survey salt marshes at centimetric resolution. We are welcoming research using any UAV-borne instrument, such as laser scanners, RGB cameras, hyperspectral cameras, thermal sensors, DInSAR, among others. We are particularly interested in the following aspects: Characterization of vegetation type, height, and density; Monitoring animal activity; Estimation of marsh and creek ground elevation, with focus on vegetation removal techniques; Flow velocity estimation; Estimation of rates of change of marsh characteristics; Sediment transport

### Guest Editors


Dr. Alberto Canestrelli

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### Deadline for manuscript submissions

closed (31 July 2023)


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