## Use of Remote Sensing for Seasonal and Temporal Monitoring in Wetlands: A Case Study of Akyatan Lagoon

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**Abstract :** Wetlands are the areas which have important effects and functions on protecting human life, adjust to nature, and biological variety, besides being potential exploitation sources. Observing the changes in these sensitive areas is important to study for data collecting and correct planning for the future. Remote sensing and Geographic Information System are being increasingly used for environmental studies such as biotope mapping and habitat monitoring. Akyatan Lagoon, one of the most important wetlands in Turkey, has been facing serious threats from agricultural applications in recent years. In this study, seasonal and temporal monitoring in wetlands system are determined by using remotely sensed data and Geographic Information Systems (GIS) between 1985 and 2015. The research method is based on classifying and mapping biotopes in the study area. The natural biotope types were determined as coastal sand dunes, salt marshes, river beds, coastal woods, lakes, lagoons.

Keywords : biotope mapping, GIS, remote sensing, wetlands

**Conference Title :** ICLEUE 2017 : International Conference on Landscape Ecology and Urban Ecology

Conference Location : Rome, Italy

Conference Dates : March 05-06, 2017

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ISNI:000000091950263