
extracting shoreline using satellite images

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Sea shores are among the most dynamic natural habitats, and for the purpose of optimal management of these shores and the protection of the environment for sustainable development, we need to extract the coastline and record its changes. In this regard, satellite imagery is used to extract these borders. In the method presented in this thesis, the histogram of color and fuzzification for fragmentation and extraction of the boundary are used and the particle swarm algorithm is used for optimization in fuzzy rules. Simulation results show the proper performance of the proposed method. Key words: Coastal Exclusion, Satellite Images, Color Histogram Analysis, Phaseization, Particle Swarm Algorithm.

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