Abstract

**ArcView and Images for Monitoring Line Transmissions**

**Track:** Remote Sensing Imagery

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The methodology studied in this work aims to monitor special areas under and beside the Lines Transmissions (LT) for Brazilian Energy Companies, using geoprocessing tools and high-resolution images (Quickbird). The places considered for this study were Florianópolis--Santa Catarina Island and Ita-Caxias--Rio Grande do Sul. The images were manipulated and also classified, using resources of digital image processing through ERDAS software. The layers of such classifications were related to vegetations, soils changed and invasion areas with constructions. The software ArcView 8.3 allowed users to generate a useful database develop spatial analyses further, specially soil use and irregular occupations at corridors of LT's. With ArcView 8.3, it is also possible to develop an example of the real situation with the national legislation. Brazil has an extensive electric network, because of its huge territory, it therefore needs a practical solution for monitoring these special areas.

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