

A new target detector based on geometrical perturbation filters for Polarimetric Synthetic Aperture Radar (Pol-sar)

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Abstrak

This thesis presents a groundbreaking methodology for the radar international community. The detection approach introduced, namely perturbation analysis, is completely novel showing a remarkable capability of thinking outside the box. Perturbation analysis is able to push forward the performance limits of current algorithms, allowing the detection of targets smaller than the resolution cell and highly embedded in clutter. The methodology itself is extraordinarily flexible and has already been used in two other large projects, funded by the ESA (European Space Agency): M-POL for maritime surveillance, and DRAGON-2 for land classification with particular attention to forests.