

ACD SENSITIVITY TO VEHICLE TRAJECTORY

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Automated Change Detection (ACD) is a technique that automatically discerns any area of change when comparing two (sonar) images of the same geographic location over different moments in time. A co-registration step ensures that the areas in both images coincide. Currently, the success of co-registration relies on the closeness of the respective vehicle trajectories. This paper will investigate the effectiveness of the co-registration stage (and thus the ACD process) with differences in vehicle trajectories with respect to spacing between the reference and repeat pass track. A study will also be performed on the angle of the vehicle trajectory as it differs from the reference vehicle trajectory.