New approaches to measure concrete damage detection





AIM: develop a vision-based tool for early-stage recognition of damage to the concrete cover Description:

Concrete durability is a big problem for structures: corrosion products tend to swell the concrete cover. The aim is to detect this swelling by 3D vision devices mounted on drones. At this stage interest is in the possibility to detect the swelling thanks to a 3D vision system which is going to be deployed on drones. Skills and knowledge.

3D vision, data acquisition and image processing software, laboratory activity

The thesis will be carried out at the Department of Mechanical Engineering, in the Laboratory of Mechanical Measurements and on field.



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