Change detection in remote sensing observations
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Chapter 1

Change detection in remote sensing observation

The aim of this chapter is to draw an overview of change detection techniques in remote sensing earth observation. In remote sensing application, a change may be considered to as an alteration of the surface components. But temporal analysis of remote sensing image is facing several difficulties, among them the large amount of data to be processed and also the very few number of temporal observations. Despite the lack of temporal model, the natural evolution of landscape and the evolution induced by the sensors, many valuable techniques exist that perform change detection from two or more images acquired from the same or from different sensors.

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¹. CACHANT: Cartographie Automatique des ChAngements Naturels par Télédetection http://gdr-isis.org/cachant.