

ABSTRACT

COHERENCE CHANGE DETECTION TECHNIQUES

5 Techniques for determining coherency between composite images having phase
and amplitude components are disclosed. The coherency can be determined based on
the amplitude components of the images, by providing first and second amplitude
images indicative of amplitude values of pixels of a respective first and second
composite images, applying to each of the first and second amplitude images a first
10 directional derivative operator and a second directional derivative operator, thereby
generating for each of the amplitude images respective first directional derivative image
and second directional derivative image thereof, and generating a first coherency map
based at least on the directional derivative images of the first and second amplitude
images. The first coherency map is indicative of decorrelation between the first and
15 second composite images.

Fig. 1A