

Re: Exact features matching from two aerial photos – for change detection

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On Feb 15, 4:36 pm, Tom <tomwebster2...@xxxxxxxx> wrote:

I have two black/white aerial photos (A and B) that were taken at different dates and angles. Both scenes were registered covering the same extent of a neighborhood and have the same size.

For an automated change detection, I wish to transform all separate features (e.g. roofs, roads, trees) from scene A to scene B, and visualize the matching degree for each of all features. In this local-level affine transformation, every feature in scene A should be projected and repositioned based on scene B, pixel by pixel. Because of the difference in shooting angles with original photos, some features such as very tall buildings have major shadows in scene A while little in scene B; this poses a unique challenge for auto change detection at features level.

Have you come across any existing methods and/or tools for this type of task? THANKS.

It's not clear to me what the problem is. Show the photos and mark what exactly causing the problem.