

## ***Interactive comment on “An approach to computing direction relations between separated object groups” by H. Yan et al.***

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An interesting research on direction computation. The paper is well organized with clear analysis of existing direction models and detail description of proposed method. Direction computing based Voronoi provides a multiple direction computation with quantitative description and can be recorded in qualitative description. Some comments is as follows: 1. It seems that the description ( p3183line4-9) about projection is not associated with Figure 4. 2. The presence of Figure 4 and Figure 3 is not correct. 3. Figure 6 in p3186line19 should be Figure 5. 4. Is “the two objects” (p3188line1) equal to “two objects group”, the parameter  $d$  here is not so clear. Also the statement, “ the details . . .less than  $S$  will be simplified” is not clear. 5. The example in experiment (Figure 11) for testee should be clear without Voronoi Diagram or TIN because the de-

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pictions with Voronoi/TIN will influence the testee's recognition of the directon. 6. How to compute the inversion direction ( for example, p3191line2-4) is not delivered in the paper.

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Interactive comment on Geosci. Model Dev. Discuss., 6, 3179, 2013.

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