

Interactive comment on “An automated fracture trace detection technique using the complex shearlet transform” by Rahul Prabhakaran et al.

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Dear Authors,

based on the reviewers' reports and the way you responded to their comments/remarks, you are invited to submit a revised version of your manuscript.

My assessment of the submitted manuscript is in line with the referees' comments when requiring (i) a more exhaustive explanation of the adopted methodology; (ii) a better comparison between the structural data collected in the field and the output results; and (iii) an explicit sensitivity analysis for a better understanding of the relationships between input and output variables.

Regarding points (ii) and (iii), I would ask the Authors to include in the Discussion

C1

chapter a section entitled "Validity and Limitation of the Technique", where advantages and disadvantages of the adopted technical approach are systematically listed and critically discussed (see also the SC1 on this regard). This addition is necessary for the overall appraisal of the obtained results and their impact for future research in the field.

Specific comments (i) Figure 2: it merits a more exhaustive description both in the text and figure caption (i) Figures 8 and 10-13: include the number of measurements in rose diagrams. As a general comment, rose diagrams are adequate in depicting the strike of sub-vertical joint arrays. Have the measured joint systems sub-vertical attitudes?

Yours sincerely, Federico Rossetti

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