

Interactive comment on “New algorithm for integration between wireless microwave sensor network and radar for improved rainfall measurement and mapping” by Y. Liberman et al.

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The paper is clearly written and presents a new weighted scheme to combine data from different sources to produce improved and more complete estimates of rainfall as compared with the individual sources. The approach is well evaluated with independent data. The topic is appropriate for AMT.

For the record, a comprehensive review was provided by another reviewer during the quick reports stage; that reviewer has not yet sent an additional comments. These comments have been well addressed in the manuscript that appears for discussion as

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assessed by the associate editor.

Additional technical points that should be considered:

p. 4482, L8: Please remove comma before “and”. L9: change “in” to “for”

p.4484, L1: change demonstrate to demonstrates. L9: I agree with the first review to remove the words such as “novel” and “important” here and elsewhere. For example, by some definitions, the word “novel” has a subjective connotation. It would suffice to state that this is the first time such an algorithm has been implemented.

p. 4485: Please put a comma at the end of the equation (2) (and subsequent equations) and do not capitalize “Where”. Please explain all variables in this equation (or remove the first part, which appears not to be necessary).

p. 4486, L 19-20.:This is not a proper sentence. Please clarify. L 21: Change comma to semicolon.

p.4489, L. 12: Please change “data is” to “data are”.

p. 4497, L. 14: Please change definitions to definition

p. 4501, L. 2: Please change comma to semicolon. Suggest changing “rightness” to “effectiveness” or similar term. L15: Change never to ever.

Figs. 7-9: There is a lot of white space in these figures that can be reduced in order to more clearly show the improvement obtained with the integrated algorithm.

Scatter diagram figures: You could put statistics on these figures (there is a lot of white space that could be used for this). It would be convenient to have all this information together and may eliminate the need for some of the tables.

For comparison can the POD, FAR, and CSI values be similarly provided for the radar?

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 4481, 2014.

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