

Interactive comment on “Application of Weighted Semivariogram Model (WSVM) based on fitness to experimental semivariogram on estimation of rainfall amount” by S.-J. Wu et al.

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1. I would suggest testing whether or not the difference among the model results based on WSVM and TSVM is statistically significant? Ans: Since the proposed WSVM primarily take the average of the estimated semivariograms by the TSVMs with the corresponding weights based on the objective function value (see Eqs.(10) and (11)), the WSVM should be, in theory, highly statistically dependent on the TSVMs. However, this is a good future work that the statistical test, such as ANOVA, for the WSVM and TSVM would be implemented for quantifying the degree of difference. 2. A few minor

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comments: Page 4240; 3.2.1 identification of best-fit TSVM; line 10: “. . . Ertekin, 2007” mistakenly reads “Frtekin, 2007”. Page 4245; Conclusions: WSVM and TSVMs do not to be re-abbreviated. Ans: The typing error for the author’s name of the reference “. . . Frtekin, 2007. . .” would be corrected and the proposed weighted semivariogram and traditional semivariogram models can be not abbreviated again in the conclusions.

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