

Interactive comment on “Research on real-time elimination of UWB radar ranging abnormal value data” by Xin Yan et al.

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Received and published: 23 September 2020

First of all, thank you for your comment, and we will revise your questions. 1. In our experiment, a linear model is used for fitting estimation, and then for each measurement value, a Gaussian function model is used to detect outliers, and finally the detected outliers are eliminated to obtain the final estimated value. We will revise the abstract to make it easier for readers to read. 2. We use linear regression algorithm and Gaussian function model. First select a large amount of experimental data to train the linear regression model, and eliminate outliers based on the Gaussian function model, and finally get the measured value. Finally, the test data is selected for linear regression model verification. We will add this content to the manuscript to complete this part of the content. 3. Equation (1) is a normal distribution equation, indicating that the mea-

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sured data approximately obeys the normal distribution function $f(x)$. The symbols you mentioned are mean and standard deviation. 4. The symbols you mentioned in 4 are the average value of the estimated value and the standard deviation deviation value respectively. For 3 and 4, we will indicate the meaning of the symbols in the equations in the manuscript.

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss.,
<https://doi.org/10.5194/gi-2019-42>, 2020.

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