

Interactive comment on “Derivation of land surface temperature from Landsat Thematic Mapper (TM) sensor data and analyzing relation between land use changes and surface temperature” by S. Zareie et al.

S. Zareie et al.

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Dear Reviewer in Chief,

My revised paper has been attached. It has been provided based on your comments. We tried to provide paper based on all of comments. The revised parts has been shown with different colors. If there is any problems do not hesitate to get in touch me.

What is the “Within Groups”? The formula for the one-way Variance Analysis of relationship between land surface temperature and normalized difference vegetation index (NDVI) F-test statistic is $F = \frac{\text{explained variance}}{\text{unexplained variance}}$ or

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$F = \frac{\text{Between group variability}}{\text{Within Group variability}}$ "Within Group variability" is the "unexplained variance" that shows experimental error rate. $\sum_{i=1}^n (Y_i - \bar{Y})^2 / ((K - 1))$ where \bar{Y} denotes the sample mean in the i th group, n_i is the number of observations in the i th group and n denotes the overall number of observations. F is the ratio of the between-group variability to the within-group variability, which is unlikely to happen if the population means are the same. F is a measure of whether the variables within the group of variables are measuring the same thing. Correlation between groups is a measure of whether each group reflects one overall trait, or how each trait (group) is related to every other trait.

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Best Regards,

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Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/se-2016-22/se-2016-22-AC2-supplement.pdf>

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-22, 2016.

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