

Interactive comment on “Spatial and radiometric characterization of multi-spectrum satellite images through multifractal analysis” by Carmelo Alonso et al.

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In my opinion this is a novel work related to multiscaling analysis of data cropped from satellite images. I would like to pay attention to the following: a) In order to better illustrate similitude or differences in the visible (blue, green and red) and near-infrared wavelength I suggest to characterize asymmetry of the singularity spectrum by AI index (Xie et al., 2010), defined as: $AI = \frac{(\Delta L - \Delta R)}{(\Delta L + \Delta R)}$, where $\Delta L = (A_{\text{max}} - A_{\text{min}})$ and $\Delta R = (A_{\text{max}} - A_{\text{min}})$ are the widths of the left and right branches of the $f(A) - A$ plots, respectively. Reference: Xie, S., Q. Cheng, X. Xing, Z. Bao, and Z. Chen. 2010. Geochemical multifractal distribution patterns in sediments from ordered streams. *Geoderma* 160:36-46. b) I wonder if it

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would be worth checking multifractality of the Normalized Difference Vegetation Index (NDVI)

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a) In order to better illustrate similitude or differences in the visible (blue, green and red) and near-infrared wavelength I suggest to characterize asymmetry of the singularity spectrum by AI index (Xie et al., 2010), defined as: $AI = (\Delta\alpha_L - \Delta\alpha_R) / (\Delta\alpha_L + \Delta\alpha_R)$, where $\Delta\alpha_L = (\alpha_0 - \alpha_{min})$ and $\Delta\alpha_R = (\alpha_{max} - \alpha_0)$ are the widths of the left and right branches of the $f(\alpha)$ - α plots, respectively.

Reference: Xie, S., Q. Cheng, X. Xing, Z. Bao, and Z. Chen. 2010. Geochemical multifractal distribution patterns in sediments from ordered streams. *Geoderma* 160:36-46.

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Fig. 1.

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