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Subject: Fractal analysis in PV-WAVE, anyone?

Posted by [Ken Ritley](#) on Tue, 25 Jan 2000 08:00:00 GMT

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Hi,

I would like to analyze some surface topography data (essentially, a square two-dimensional image - or array real numbers, each number in the array denoting the height of a surface at the selected coordinates), and I would like to obtain parameters such as the so-called "fractal dimension" which characterizes the roughness of the surface or image.

There are many definitions of fractal dimensions and many other types of so-called "fractal analyses" - and what I would be keen to learn is whether anyone has already developed PV-WAVE (or failing that, IDL) macros to compute quantities such as these and would be willing to share them - or else whether at least someone has pointers to the literature describing how to evaluate these sorts of quantities in straightforward fashion?

I am new to both PV-WAVE and fractal analysis, and really anything along these lines could save me time and effort.

Many thanks! Any pointers/suggestions/feedback/macros/whatever would be greatly welcome!

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