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## **Influence of Soil Porosity in Generalized Fractal Dimensions**

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Twenty soil images with different porosity (from 5% till 55%) were analysed to calculate their mass dimension (D0), information dimension (D1) and correlation dimension (D2). At the same time, random and multifractal images were generated covering the same range of the studied porosity to calculate the same generalized fractal dimensions. It was observed that for all of them the porosity has a quite clear relationship with the value obtained for D0; D1 and D2. Also, the generalized fractal dimensions obtained from an image with a porosity above 30% cannot be easily distinguished from the ones obtained from a generated random image.