

Fractal characteristics of textiles

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Analysis of surface and structural properties of textile material, from the perspective of fractal-related investigations, can be realized with the use of image processing methodologies. In its commonly used sense, the image processing approach relies on pixel counting for a given selected region. The counting procedure can be repeated in many places. The information collected in this way can be then elaborated using such approaches such as: fractal capacity and fractal correlation dimensions, random walk on images, succolarity, lacunarity, and topothesy, which is the main subject of the presentation.