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Patterns, Entropy, Surface Textures and Related Applications

Guest Editor:

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Message from the Guest Editor

The rapid advances of nanotechnology in materials science have led to the development of extremely useful texture-controlled surfaces that are now ubiquitous in our daily lives. Textured surfaces are also important for modern microbial elimination, semiconductor processing, information transfer, self-cleaning processes, machining, fracture, friction and wear, color, reflectivity, adhesion, cook-wear, heat transfer, catalysis, drug development, fluid-flow, aerodynamics, and fractal representations.

Surface science has thus become the key value-added branch of every core science and technology discipline. Surfaces may be thought to be associated with energy and entropy that is associated with their texture and chemistry. Atomic diffuseness is also often a key feature of nanoscale surfaces. Surfaces are now routinely described by their autocorrelation lengths and root mean-squared roughness. This journal issue is directed at the assessment of such surfaces, and their properties and usefulness.

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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