Special Issue

Single Particle Dynamics in Granular Systems

Message from the Guest Editors

Topics include particle hopping, rolling, sliding, and diffusive transport under varied conditions of confinement, vibration, shear, and flow. Studies addressing the influence of particle shape, size distribution, surface roughness, and interstitial fluids are particularly encouraged. Authors may employ discrete element methods, high-speed imaging, to quantify force networks, velocity distributions, and energy dissipation pathways. We aim to bridge the gap between grain-level physics and continuum descriptions, enhancing predictive capabilities for industrial processes, geophysical flows, and manufacturing. By highlighting fundamental insights into single-particle behaviour, this collection aspires to advance the understanding and control of granular materials across scientific and engineering domains. These insights inform industrial applications.

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Editor-in-Chief

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