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*Random walk, random media and random geometry.*

This talk aims to present a glimpse on a small portion of some recent research on geometric aspects for random walks, Gaussian free fields, as well as random walks on random media. In particular, I will illustrate rich connections between (both the formulation and the solution of) the presented problems and percolation theory. During the talk, I will not focus on any particular research problem; rather, I will give a low-resolution description on the flavor of a number of facets on these research topics. This talk is based on works with/by many colleagues. (Received February 08, 2018)