

Keynote Address: Risk Analysis in Geoscience and Remote Sensing

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Abstract

Risk analysis, that is the problem of estimating the probabilities of rare and damaging events, unifies the geosciences. One can mention the risks from: floods, earthquakes, forest fires, space debris. The probabilities may be fed into the computation of insurance premiums. The Poisson process often plays a prominent role, while in the talk marked point processes will have a basic function. Various ways to collect and extrapolate data will be described and examples from various fields will be presented.