
TOMOKI INOUE, Ehime University

Invariant measures for random maps with continuous random parameters

We consider a family of transformations with a random parameter and study a random dynamical system in which one transformation is randomly selected from the family and applied on each iteration. The parameter space may be of cardinality continuum. The selection of the transformation need not be independent of the position in the state space. We study the existence of absolutely continuous invariant measures for random maps on an interval under some conditions. We also study some estimates of the stationary densities for some examples.