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Andrzej Korzeniowski* (korzeniowski@uta.edu), Department of Mathematics, P.O. Box 194008, Arlington, TX 76019. *Interacting Markovian systems*. Preliminary report.

This work is concerned with a class of Markov processes which undergo random perturbations through interaction. Randomization and scaling lead to an interesting long time behavior. Characterization of limiting properties in the context of hybrid dynamical systems will be presented and illustrated by examples. (Received September 20, 2007)