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MR1709869 (2000f:37069)**[Froyland, Gary \(D-PDRB\)](#)****Ulam's method for random interval maps. (English summary)***Nonlinearity* **12** (1999), *no. 4*, 1029–1052.[37H99](#) ([28D05](#) [34E05](#) [37A25](#) [37A50](#))[Journal](#)[Article](#)[Doc
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The author considers a dynamical system defined by random compositions of piecewise expanding maps of an interval [see S. Pelikan, *Trans. Amer. Math. Soc.* **281** (1984), no. 2, 813–825; [MR0722776 \(85i:58070\)](#)]. Two models of controlling the compositions are considered: the classical i.i.d. model and a new Markov model. For both cases, the author develops precise estimates on the speed of convergence of the iterates of the Perron-Frobenius operator. Then, he uses Ulam's method of approximating the P-F operator by finite-dimensional operators (matrices) and proves the convergence of the approximations. Again, precise estimates of the speed of convergence are given.

Reviewed by [Paweł Góra](#)

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Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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