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Florian Rupp* (florian.rupp@gutech.edu.om), German University of Technology in Oman,
Department of Mathematics and Science, PO Box 1816, Athaibah PC 130, Muscat, Oman.

Towards the Approximation of Stochastic Lyapunov Functions.

Based on the deterministic radial basis interpolation method and the sums of square decomposition we discuss the construction of Lyapunov functions for asymptotically stable equilibria in dynamical systems generated by random and stochastic differential equations. (Received August 24, 2015)