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Adina Oprisan*, Barry University, Miami Shores, FL 33154. *Large deviations via almost sure CLT for functionals of Markov processes.*

We consider additive functionals of continuous time Markov processes and prove that their functional central limit theorems admit almost sure versions based on empirical measures with logarithmic averaging. For the corresponding empirical processes, we prove a large deviation principle based on a martingale decomposition, established here for additive functionals of Markov processes. (Received September 23, 2012)