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Ibukun O Amusan* (ibukun.amusan@kysu.edu). *Pricing with Markov Chain Monte Carlo and a Coupled Additive-Multiplicative Stochastic Model.*

This paper considers the problem of pricing using Markov Chain Monte Carlo (MCMC). MCMC has been known to be useful for processes whose distributions are complex. The paper will specifically look at MCMC with a coupled additive-multiplicative (CAM) stochastic volatility model, which does not follow a Gaussian distribution. Some of the challenges encountered with pricing under this CAM model will be discussed. Also, some potential applications of this model in actuarial science will be explored. (Received September 24, 2017)