

arXiv.org > math > arXiv:1305.3728

Search or Article-id

(Help | Advanced search) All papers - Go!

Mathematics > Statistics Theory

On Approximation of the Backward Stochastic Differential Equation

Yury A. Kutoyants, Li Zhou

(Submitted on 16 May 2013)

We consider the problem of approximation of the solution of the backward stochastic differential equation in the Markovian case. We suppose that the trend coefficient of the diffusion process depends on some unknown parameter and the diffusion coefficient of this equation is small. We propose an approximation of this solution based on the one-step MLE of the unknown parameter and we show that this approximation is asymptotically efficient in the asymptotics of "small noise".

Comments:	18 pages
Subjects:	Statistics Theory (math.ST) ; Probability (math.PR)
MSC classes: Cite as:	62M05 arXiv:1305.3728 [math.ST] (or arXiv:1305.3728v1 [math.ST] for this version)

Download:

- PDF
- PostScript
- Other formats

Current browse context: math.ST < prev | next > new | recent | 1305

Change to browse by:

math math.PR stat

References & Citations

• NASA ADS

Bookmark(what is this?)