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Sufficiency and Rao-Blackwellization of Vasicek model. (English) Zbl 1244.62004
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Summary: We use sufficiency and the Rao-Blackwell theorem to obtain efficient estimators and to discretize the continuous time Vasicek process optimally.

MSC:

- 62B05 Sufficient statistics and fields
- 62F12 Asymptotic properties of parametric estimators
- 60H10 Stochastic ordinary differential equations (aspects of stochastic analysis)

Keywords:

Itô's stochastic differential equation; diffusions; experimental designs; maximum likelihood estimator; least squares estimator; efficiency