

学术论文

# 保险赔付中的最优对冲策略

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**摘要** 本文对带有付费过程 $A_t$ 的保险公司在金融市场 $(S_t, Q_t, B_t)$ 上通过购买股票 $S_t$ 、兑换外币 $Q_t$ 以及购买无风险资产 $B_t$ 的投资过程而采取的最优投资策略, 使保险公司所面临的风险最小进行探讨. 利用Galtchouk-Kunita-Watanabe分解定理将风险表达式重新表达, 从而找到保险公司所能采取的风险最小的最优对冲策略. 文中举出一个具有现实性意义的例子将文章的重要结论加以应用, 使本文更具有应用价值.

**关键词** [Galtchouk-Kunita-Watanabe分解定理](#), [Girsanov定理](#), [最优对冲策略](#), [付费过程](#), [具有保证的单位联结保险合同](#).

分类号

## The Hedging Strategies of Optimization in Insurance Payment Processes

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**Abstract** In this paper we discuss the insurance companies with payment process  $A_t$  hedge their risk to the level of minimum by buying stocks  $S_t$ , exchanging foreign -- currency  $Q_t$  and buying risk -- free asset  $B_t$  in the financial market  $(S_t, Q_t, B_t)$ . In virtue of Galtchouk-Kunita-Watanabe Decomposition Theorem, the expression of risk is expressed over again. Then we get the hedging strategies of optimization with minimal risk. It gives out a realistic example to apply the important conclusion in this paper, which makes this paper to be more practical.

**Key words** [Galtchouk-Kunita-Watanabe Decomposition Theorem](#), [Girsanov Theorem](#), [the hedging strategies of optimization](#), [payment processes](#), [unit-linked insurance contracts with guarantee](#).

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