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DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE
THE UNIVERSITY OF HONG KONG

Seminar for Confirmation of Candidature

Ms. JIANG Xin

Department of Statistics and Actuarial Science
The University of Hong Kong

will give a talk

entitled

OPTIMAL REINSURANCE AND INVESTMENT CONTROL WITH TIME-VARING SAFETY LOADING

Abstract

This paper studies the optimal investment and reinsurance problem for a risk model with time-varying safety loading. It is assumed that the insurance safety loading and the time-varying claim arrival rate are connected through a monotone decreasing function, and that the insurance and reinsurance safety loadings have a linear relationship. Applying stochastic control theory, we are able to derive the optimal strategy that maximizes the expected exponential utility of terminal wealth. We also provide a few numerical examples to illustrate the impact of model parameters on the optimal strategy.

on

Monday, August 15, 2016

2:30 p.m. – 3:30 p.m.

at

Room 301, Run Run Shaw Building

All interested are welcome