Optimal dividend problems for a jump-diffusion model with capital injections and proportional transaction costs. (English summary)

**Summary:** “In this paper, we study the optimal control problem for a company whose surplus process evolves as an upward jump diffusion with random return on investment. Three types of practical optimization problems faced by a company that can control its liquid reserves by paying dividends and injecting capital. In the first problem, we consider the classical dividend problem without capital injections. The second problem aims at maximizing the expected discounted dividend payments minus the expected discounted costs of capital injections over strategies with positive surplus at all times. The third problem has the same objective as the second one, but without the constraints on capital injections. Under the assumption of proportional transaction costs, we identify the value function and the optimal strategies for any distribution of gains.”

**References**

12. E. Bayraktar, A. E. Kyprianou and K. Yamazaki, Optimal dividends in the dual


Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.