Risk Theory under Randomized Observations

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Abstract

Abstract: In this talk some recent developments in ruin theory are presented when observations of the surplus process are reduced to discrete random times. When observation rates are surplus-dependent, there is a natural interpretation in terms of a relaxed ruin concept which is referred to as bankruptcy. It turns out that this extension of classical ruin theory leads to explicit and simple formulas under various typical model assumptions, which are also applicable in contexts outside insurance applications.