

**ALBEANU, Grigore; MADSEN, Henrik; GHICA, Manuela;**  
**POPENȚIU-VLĂDICESCU, Florin, *BOOTSTRAP INTENSIVE METHODS FOR***  
***UNDERSTANDING EMPIRICAL LOSS DATA AND DYNAMIC FINANCIAL ANALYSIS***

**Abstract:** Bootstrap Intensive Methods for estimation assessment provide valuable information concerning the adequacy of applied probabilistic models. The bootstrap method is an extensive computational approach for understanding empirical data and is based on resampling and statistical estimation. It is a powerful tool, especially when only a small data set is used to predict the behaviour of systems or processes. This paper describes some case studies based on the Efron type bootstrap approaches for modelling loss distributions and for general dynamic financial analysis. The case studies are inspired from risk management field. The research is based on theoretical previous developments in accuracy assessment, reliability estimation and risk exchange modelling.

**Keywords:** bootstrap, loss distributions, dynamic functional analysis