

# The Actuary's Toolkit: A View from EMB

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## ABSTRACT

In this short paper, some of EMB's software tools that have been developed to help solve business problems are described, from the perspective of the new and emerging statistical and risk management techniques that have been incorporated. In addition, the challenges of developing actuarial software, and actuarial education, are discussed.

## KEYWORDS

Bayesian, Bootstrap, Demand Modelling, Dynamic Financial Analysis, Generalised Linear Models, Internal Capital Models, Markov Chain Monte Carlo, Parameter Uncertainty, Predictive Modelling, Price Optimisation, Pricing, Simulation, Spatial Smoothing, Stochastic Reserving.