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Risk management in insurance: what technical solutions to answer the huge modeling requirements?

All risks have to be modeled simultaneously. For the estimation of tails and extreme events The new European regulation for insurance “Solvency II”
encourages insurers of big/medium size companies to implement internal models for the calculation of their required capital. 10 000 simulations at least are recommended. For big companies this can theoretically imply runtimes of several weeks… This becomes even worse with the Simulations in Simulations issue.
The aim of this presentation is to review a range of solutions to deal with this huge number of simulations, through the analyze of adapted random generators, models optimizations, and potential simplified “artificial intelligence” implementations.

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http://crear.essec.edu/working-group-on-risk/past-meetings