Computational Finance and Financial Engineering

The R/Rmetrics Software Environment

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Abstract

R/Rmetrics has become the premier open source solution for teaching financial market analysis and valuation of financial instruments. With hundreds of functions build on modern methods R/Rmetrics combines explorative data analysis and statistical modeling. Rmetrics is embedded in R, both building an environment which creates for students a first class system for applications in statistics and finance.

In the heart of the software environment are powerful time/date and time series management tools, functions for analyzing financial time series, functions for forecasting, decision making and trading, functions for the valuation of financial instruments, and functions for portfolio design, optimization and risk management.

In this talk we give an overview on R/Rmetrics and present new directions and recent developments.

References:

R/Rmetrics Core Team, The R/Rmetrics Software Environment,
www.rmetrics.org and r-forge.r-project.org