R in the Practice of Risk Management Today

Jagrata Minardi[1,*]

1. TIBCO Software, Inc.
*Contact author: jminardi@tibco.com

Keywords: financial risk management, portfolio management, simulation

This talk explores several concrete computational tasks in risk management and portfolio management, in the true scale at which they occur in large financial institutions. Using *R* and well-known packages, there is strong coverage of analytical methods, but challenges remain as size of problems grow and answers are required more quickly.

How does today's software improve our ability to manage risk in the time needed by business? When models change, how quickly can they be brought to market? How has recent developments in both regulatory bodies and the competitive landscape changed the business problems themselves? We'll identify the state of the art against several key challenges in financial risk management, and indicate how software---and the industry itself---are changing the playing field.