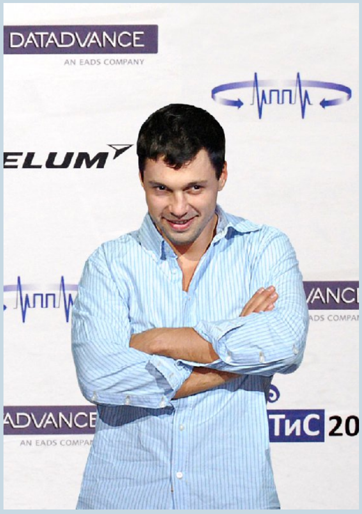
High-Dimensional
Non-Stationary Time Series Analysis

IRTG 1792 Short Course

Evgeny Burnaev



Modeling and Forecasting Volatility in the Financial Markets

Volatility modeling and forecasting have attracted much attention in recent years, largely motivated by its importance in financial markets. Many asset-pricing models use volatility estimates as a simple risk measure, and volatility appears in option pricing formulas derived from such models as the famous Black-Scholes model and its various extensions. For hedging against risk and for portfolio management, reliable volatility estimates and forecasts are crucial.

The aim of this short course is to systematically overview and categorize the various volatility concepts, measurement procedures, and modeling procedures.

11.-12.05.2015 | 10:00-12:00

Room 401, SPA1

11.05.2015 | 14:00-16:00

Room 23, SPA1

Evgeny Burnaev works at DATADVANCE company and teaches at department of Surrogate Modeling and Optimization of Moscow Institute of Physics and Technology. He also conducts theoretical research (in the field of regression estimation and disorder detection) as a senior researcher in PreMoLab.

http://irtg1792.hu-berlin.de

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