Licentiate studies of econophysics in University of Silesia

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Abstract

Interactions between financial markets, complexity of stock functioning, and overall rapid development in economy requires mathematically complicated description. Recently, an increasing interest in the application of physics techniques to economics problems (this approach is commonly called 'econophysics') can be observed. Physicists are more often employed in "economy sector" where, after completing additional courses, they use statistical tools and physics methods for financial market modeling and predicting global economic behavior. Therefore in 2001 we started 3 year study of econophysics which prepare students for the work in financial markets. We present program of econophysics studies, in which subjects in mathematics, physics, statistics, computer science, economy, management are covered. Studies are performed in the Institute of Physics, University of Silesia, Katowice, Poland, with a close collaboration with University of Silesia School of Management and ING Bank Śląski, Katowice. We discuss details of this collaboration as well.