



Econophysics Approaches to Large-Scale Business Data and Financial Crisis: Proceedings of Tokyo Tech-Hitotsubashi Interdisciplinary Conference + APFA7

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In recent years, as part of the increasing “informationization” of industry and the economy, enterprises have been accumulating vast amounts of detailed data such as high-frequency transaction data in financial markets and point-of-sale information on individual items in the retail sector. Similarly, vast amounts of data are now available on business networks based on inter firm transactions and shareholdings. In the past, these types of information were studied only by economists and management scholars. More recently, however, researchers from other fields, such as physics, mathematics, and information sciences, have become interested in this kind of data and, based on novel empirical approaches to searching for regularities and “laws” akin to those in the natural sciences, have produced intriguing results. This book is the proceedings of the international conference THICCAPFA7 that was titled “New Approaches to the Analysis of Large-Scale Business and Economic Data,” held in Tokyo, March 1–5, 2009. The letters THIC denote the Tokyo Tech (Tokyo Institute of Technology)–Hitotsubashi Interdisciplinary Conference. The conference series, titled APFA (Applications of Physics in Financial Analysis), focuses on the analysis of large-scale economic data. It has traditionally brought physicists and economists together to exchange viewpoints and experience (APFA1 in Dublin 1999, APFA2 in Liege ` 2000, APFA3 in London 2001, APFA4 in Warsaw 2003, APFA5 in Torino 2006, and APFA6 in Lisbon 2007). The aim of the conference is to establish fundamental analytical techniques and data collection methods, taking into account the results from a variety of academic disciplines.

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Review

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“The conference organizers Misako Takayasu, Hideki Takayasu and Tsutomu Watanabe have collected in a volume the papers presented at the APFA 7 conference. ... the volume provides a good guide to get information on current research conducted in Econophysics and to first approach extremely timely topics such as the role of bubbles in finance, systemic risk and the role of large amounts of data in research of economic and social complex systems.” (R. N. Mantegna, *Il Nuovo Saggiatore*, Vol. 27 (5-6), 2011)

About the Author

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