SYSTEMIC RISK

THE DYNAMICS OF MODERN
FINANCIAL SYSTEMS



PRASANNA GAI

Systemic Risk The Dynamics Of Modern Financial Systems

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Systemic Risk Prasanna Gai, 2013-03-28 This book applies some of the lessons from network disciplines such as ecology epidemiology and engineering to study and measure how small probability events can lead to contagion and banking crises Systemic Risk and Complex Networks in Modern Financial Systems Vincenzo Pacelli, 2024-10-16 This open access book is a groundbreaking exploration of systemic risk in modern financial systems Through its theoretical and empirical investigations it reveals the multidimensionality of systemic risk the transmission channels of crises and the interlinkages between physical transition and financial risks It introduces cutting edge methodologies including prediction and optimization models based on complex networks multilayer networks and eXplainable Artificial Intelligence XAI approaches to forecast and measure systemic risk and financial crisis It provides insight for academics practitioners policy and supervisory authorities and bankers and financial market operators on understanding the links that determine the propagation of financial crises and the emergence of systemic risks This book is essential for those wishing to better understand systemic risk and its implications Systemic Risk, Institutional Design, and the Regulation of Financial Markets Anita Anand, 2016 A collection of essays from an impressive group of scholars this volume disseminates the type of regulation that can be devised and implemented to respond to systemic risk as well as how systemic risk can be regulated in The Forever Crisis Adam Day, 2024-08-01 This book is an introduction to both a domestic and international market complex systems thinking at the global governance level It offers concepts tools and ways of thinking about how systems change that can be applied to the most wicked problems facing the world today More than an abstract argument for complexity theory the book offers a targeted critique of today s highest profile proposals for improving the governance of our environment security finance health and digital space It suggests that we should spend less effort and resources on upgrading existing institutions and more on understanding how they and we relate to each other The volume will be essential reading for public policymakers NGOs and think tanks foreign policy experts government officials and global decision makers

Complexity in Economic and Social Systems Stanisław Drożdż, Jarosław Kwapien, Paweł Oświęcimka, 2021-05-11 There is no term that better describes the essential features of human society than complexity On various levels from the decision making processes of individuals through to the interactions between individuals leading to the spontaneous formation of groups and social hierarchies up to the collective herding processes that reshape whole societies all these features share the property of irreducibility i e they require a holistic multi level approach formed by researchers from different disciplines This Special Issue aims to collect research studies that by exploiting the latest advances in physics economics complex networks and data science make a step towards understanding these economic and social systems The majority of submissions are devoted to financial market analysis and modeling including the stock and cryptocurrency markets in the COVID 19 pandemic systemic risk quantification and control wealth condensation the innovation related

performance of companies and more Looking more at societies there are papers that deal with regional development land speculation and the fake news fighting strategies the issues which are of central interest in contemporary society On top of this one of the contributions proposes a new improved complexity measure ABBA: An Agent-Based Model of the **Banking System** Mr. Jorge A Chan-Lau, 2017-06-09 A thorough analysis of risks in the banking system requires incorporating banks inherent heterogeneity and adaptive behavior in response to shocks and changes in business conditions and the regulatory environment ABBA is an agent based model for analyzing risks in the banking system in which banks business decisions drive the endogenous formation of interbank networks ABBA allows for a rich menu of banks decisions contingent on banks balance sheet and capital position including dividend payment rules credit expansion and dynamic balance sheet adjustment via risk weight optimization The platform serves to illustrate the effect of changes on regulatory requirements on solvency liquidity and interconnectedness risk It could also constitute a basic building block for further development of large bottom up agent based macro financial models THE FABRIC OF DIGITAL AUTONOMY Rethinking Decision Systems in Modern Financial Networks and Intelligent Infrastructure Avinash Pamisetty, Mobile Payment Systems Joy Malala, 2017-11-28 Over the last ten years mobile payment systems have revolutionised banking in some countries in Africa In Kenya the introduction of M Pesa a new financial services model has transformed the banking and financial services industry Giving the unbanked majority access to the financial services market it has attracted over 18 million subscribers which is remarkable given that fewer than 4 million people in Kenya have bank accounts This book addresses the legal and regulatory issues arising out of the introduction of M Pesa in Kenya and its drive towards financial inclusion It considers the interaction between regulation and technological innovation with a particular focus on the regulatory tools institutional arrangements and government decisional processes through the examination as a whole of its regulatory capacity. This is done with a view to understanding the regulatory capacity of Kenya in addressing the vulnerabilities presented by technological innovation in the financial industry for consumers after financial inclusion It also examines the way that mobile payments have been regulated by criticising the piecemeal approach that the Central Bank of Kenya has taken in addressing the legal and regulatory issues presented by mobile payments. The book argues there are significant gaps in the regulatory regime of mobile banking in Kenya The Institutional Structure of Macroprudential **Policy in the UK** Kosmas Kaprinis, 2023-06-28 Macroprudential policy MPP has been one of the major initiatives in the post 2008 crisis restructuring of financial regulation Under the macroprudential mandate the regulator monitors and judiciously controls systemic risk in the financial system in an attempt to minimise the probability and severity of a future financial crisis The book reveals why MPP authorities are rightfully at the centre of a highly sensitive policy debate as MPP necessitates the allocation of significant regulatory power to technocrats while the highly technical nature of MPP makes policy evaluation challenging Specific issues examined include the importance of financial stability as a public policy goal the political economy issues stemming from the delegation of MPP to an independent authority and the definition of accountability in the context of MPP Focusing on a case study on the Financial Policy Committee of the Bank of England the macroprudential authority in the UK the book develops the normative grounds to justify the need for accountability in the conduct of MPP while also formulating the necessary institutional framework to ensure the accountability of MPP authorities An Introduction to **Socio-Finance** Jørgen Vitting Andersen, Andrzej Nowak, 2013-12-11 This introductory text is devoted to exposing the underlying nature of price formation in financial markets as a predominantly sociological phenomenon that relates individual decision making to emergent and co evolving social and financial structures Two different levels of this sociological influence are considered First we examine how price formation results from the social dynamics of interacting individuals where interaction occurs either through the price or by direct communication. Then the same processes are revisited and examined at the level of larger groups of individuals In this book models of both levels of socio finance are presented and it is shown in particular how complexity theory provides the conceptual and methodological tools needed to understand and describe such phenomena Accordingly readers are first given a broad introduction to the standard economic theory of rational financial markets and will come to understand its shortcomings with the help of concrete examples Complexity theory is then introduced in order to properly account for behavioral decision making and match the observed market dynamics This book is conceived as a primer for newcomers to the field as well as for practitioners seeking new insights into the field of complexity science applied to socio economic systems in general and financial markets and price formation in particular

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