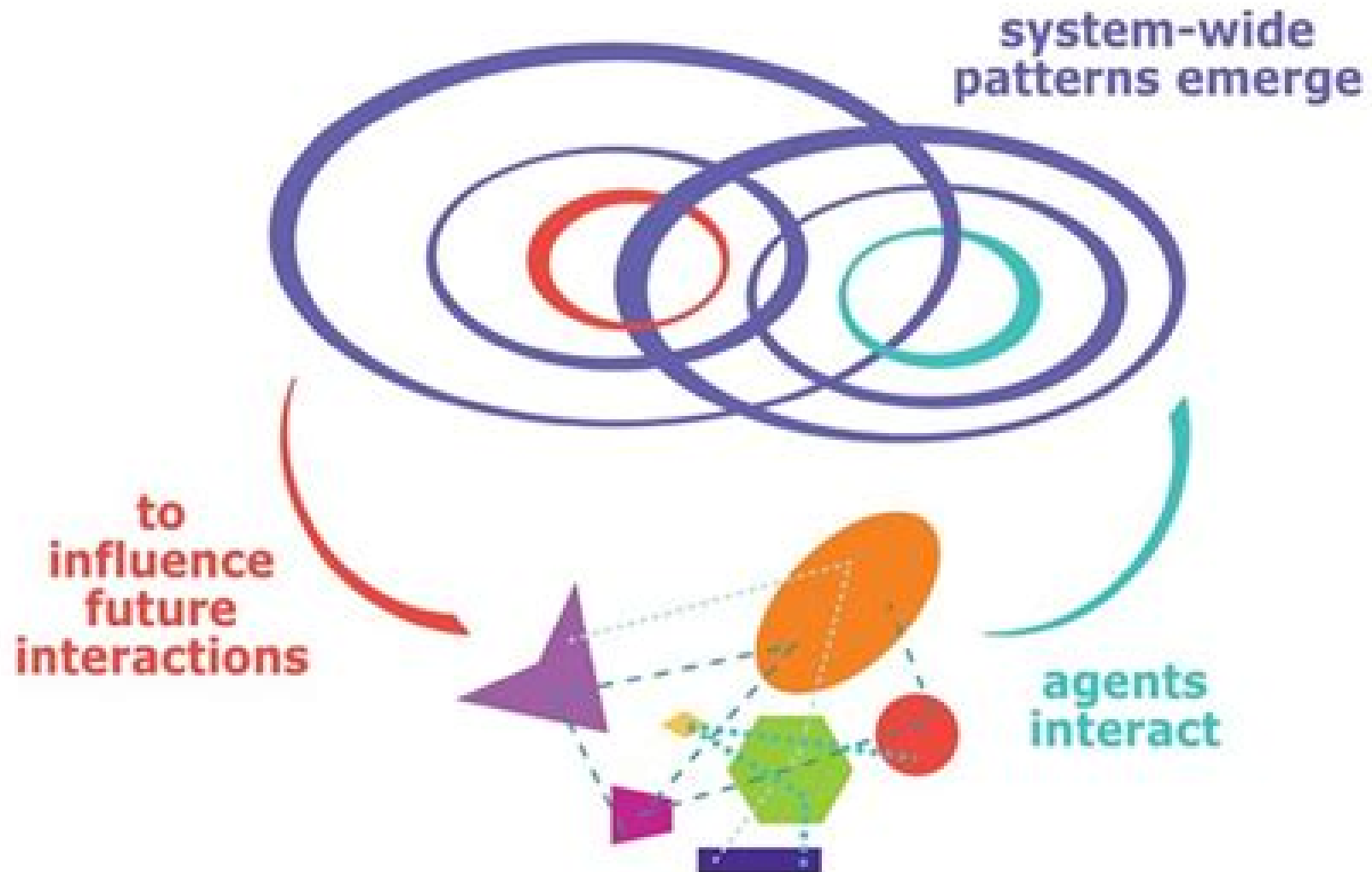


# — Complex Adaptive System (CAS) —



# Applications Of Complex Adaptive Systems

**Hongru Du**



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discipline that is grounded in reality extends our understanding of how CASoS behave and allows us to better control those behaviors Through application to real world problems Phoenix is evolving CASoS Engineering principles while growing a community of practice and the CASoS engineers to populate it Intelligent Complex Adaptive Systems Yang, Ang,Shan, Yin,2008-03-31 This book explores the foundation history and theory of intelligent adaptive systems providing a fundamental resource on topics such as the emergence of intelligent adaptive systems in social sciences biologically inspired artificial social systems sensory information processing as well as the conceptual and methodological issues and approaches to intelligent adaptive systems Provided by publisher **Complex Adaptive Systems** John H. Miller,Scott E. Page,2009-11-28 This book provides the first clear comprehensive and accessible account of complex adaptive social systems by two of the field s leading authorities Such systems whether political parties stock markets or ant colonies present some of the most intriguing theoretical and practical challenges confronting the social sciences Engagingly written and balancing technical detail with intuitive explanations Complex Adaptive Systems focuses on the key tools and ideas that have emerged in the field since the mid 1990s as well as the techniques needed to investigate such systems It provides a detailed introduction to concepts such as emergence self organized criticality automata networks diversity adaptation and feedback It also demonstrates how complex adaptive systems can be explored using methods ranging from mathematics to computational models of adaptive agents John Miller and Scott Page show how to combine ideas from economics political science biology physics and computer science to illuminate topics in organization adaptation decentralization and robustness They also demonstrate how the usual extremes used in modeling can be fruitfully transcended **Transitions to Sustainable Development** John Grin,Jan Rotmans,Johan Schot,2010-05-26 Over the past few decades there has been a growing concern about the social and environmental risks which have come along with the progress achieved through a variety of mutually intertwined modernization processes In recent years these concerns are transformed into a widely shared sense of urgency partly due to events such as the various pandemics threatening livestock and increasing awareness of the risks and realities of climate change and the energy and food crises This sense of urgency includes an awareness that our entire social system is in need of fundamental transformation But like the earlier transition between the 1750 s and 1890 s from a pre modern to a modern industrial society this second transition is also a contested one Sustainable development is only one of many options This book addresses the issue on how to understand the dynamics and governance of the second transition dynamics in order to ensure sustainable development It will be necessary reading for students and scholars with an interest in sustainable development and long term transformative change Coordination and Cooperation in Complex Adaptive Systems: Theory and Application Xiaojie Chen,Tatsuya Sasaki,Isamu Okada,2019-07-31 During the past decade plenty of studies have been carried out in the literature to address the coordination and cooperation problems in complex adaptive systems and have continued to grow This Research Topic eBook publishes 14 papers by 39 authors and most of these

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