

Lui Lam Vladimir Naroditsky Editors

# Modeling Complex Phenomena





# **Modeling Complex Phenomena**

Nicola Bellomo, Carlo Bianca

#### **Modeling Complex Phenomena:**

Modeling Complex Phenomena Lui Lam, Vladimir Naroditsky, 2012-12-06 Once upon a time science was not divided into disciplines as we know it today There was no distinction between so called social and natural sciences not to mention the fragmentation of the latter into physics chemistry biology geology etc According to legend the scientists those days would do their research in whatever environment they happened to find comfortable which more often than not was in bathtubs or giant hot tubs remember Archimedes Then somehow these days we find ourselves compartmentalized into different departments in our universities or divisions in our research institutes. We suspect for one thing that is to ensure that we will get our paychecks delivered on time at the end of each month Anyway as anyone who has worked in the real world knows when one is confronted with a completely new problem or phenomenon it is usually impossible to neatly assign the problem to physics chemistry or for that matter computer science One needs to recall and fuse together the knowledge one learned before and if that alone is insufficient to consult experts in other areas This points to the shortcomings of the compartmentalization of knowledge in our educational systems In recent years something has changed Under the banner of Complex Systems some brave souls are not afraid to tackle problems that are considered intractable by others and dare to venture out of their trained disciplines or departments to which they are attached Modeling Complex Phenomena Lui Lam, Vladimir Naroditsky, 1992-05-14 Once upon a time science was not divided into disciplines as we know it today There was no distinction between so called social and natural sciences not to mention the fragmentation of the latter into physics chemistry biology geology etc According to legend the scientists those days would do their research in whatever environment they happened to find comfortable which more often than not was in bathtubs or giant hot tubs remember Archimedes Then somehow these days we find ourselves compartmentalized into different departments in our universities or divisions in our research institutes We suspect for one thing that is to ensure that we will get our paychecks delivered on time at the end of each month Anyway as anyone who has worked in the real world knows when one is confronted with a completely new problem or phenomenon it is usually impossible to neatly assign the problem to physics chemistry or for that matter computer science One needs to recall and fuse together the knowledge one learned before and if that alone is insufficient to consult experts in other areas This points to the shortcomings of the compartmentalization of knowledge in our educational systems In recent years something has changed Under the banner of Complex Systems some brave souls are not afraid to tackle problems that are considered intractable by others and dare to venture out of their trained disciplines or departments Modeling Complex Living Systems N. Bellomo, 2008 Develops different mathematical to which they are attached methods and tools to model living systems This book presents material that can be used in such real world applications as immunology transportation engineering and economics It is of interest to those involved in modeling complex social systems and living matter in general On the Stochastic Frontier: Modeling and Analysis Pasquale De Marco, Embark on an

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of privacy and ethics New approaches for developing theory while exploiting both empirical and computational data Issues of reproducibility communication explanation and validation Special requirements for models intended to inform decision making about complex social systems Towards A Mathematical Theory Of Complex Biological Systems Nicola Bellomo, Carlo Bianca, 2011-01-12 This monograph has the ambitious aim of developing a mathematical theory of complex biological systems with special attention to the phenomena of ageing degeneration and repair of biological tissues under individual self repair actions that may have good potential in medical therapy. The approach to mathematically modeling biological systems needs to tackle the additional difficulties generated by the peculiarities of living matter These include the lack of invariance principles abilities to express strategies for individual fitness heterogeneous behaviors competition up to proliferative and or destructive actions mutations learning ability evolution and many others Applied mathematicians in the field of living systems especially biological systems will appreciate the special class of integro differential equations offered here for modeling at the molecular cellular and tissue scales A unique perspective is also presented with a number of case studies in biological modeling Modeling Complex Phenomena Using Multiscale Time Sequences ,2009 The purpose of the work funded by this grant was to study and model complex phenomena by using an approach that makes use of multiscale time sequences. The underlying idea is that a complex dynamical system can be better interpreted and modeled by taking into account how its dynamics behaves at different scales and how these scales relate to each other This can be done by combining a set statistical fractal measures based on Hurst and Holder exponents auto regressive methods and Fourier and wavelet decomposition methods The applications for this technology include mathematical algorithms to model and predict geophysical phenomena such as climate and weather patterns as well as biological biomedical phenomena such as for example for the treatment of injured individuals Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences Giovanni Naldi, Lorenzo Pareschi, Giuseppe Toscani, 2010-08-12 Mathematical modeling using dynamical systems and partial differential equations is now playing an increasing role in the understanding of complex multi scale phenomena Behavior in seemingly different areas such as sociology economics and the life sciences can be described by closely related models Using examples from financial markets and modern warfare to the flocking of birds and the swarming of bacteria the collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior The topics presented point toward new and challenging frontiers of applied mathematics making the volume a useful reference text for applied mathematicians physicists biologists and economists involved in the modeling of socio economic systems Modern Science and the Capriciousness of Nature K. Rogers, 2006-10-10 This book questions the way that modern science and technology are considered able to liberate society from the erratic forces of nature Modern science is implicated in a gamble on a technological society that will replace the natural world with a better one The author questions the rationality of this gamble and its implications for our lives

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