



Quantitative Sociodynamics: Stochastic Methods and Models of Social Interaction Processes

Dirk Helbing

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When I wrote the book *Quantitative Sociodynamics*, it was an early attempt to make methods from statistical physics and complex systems theory fruitful for the modeling and understanding of social phenomena. Unfortunately, the first edition appeared at a quite prohibitive price. This was one reason to make these chapters available again by a new edition. The other reason is that, in the meantime, many of the methods discussed in this book are more and more used in a variety of different fields. Among the ideas worked out in this book are: 1 • a statistical theory of binary social interactions, • a mathematical formulation of social field theory, which is the basis of social force models, • a microscopic foundation of evolutionary game theory, based on what is known today as ‘proportional imitation rule’, a stochastic treatment of interactions in evolutionary game theory, and a model for the self-organization of behavioral conventions in a coordination game. It, therefore, appeared reasonable to make this book available again, but at a more affordable price. To keep its original character, the translation of this book, which 1 D. Helbing, Interrelations between stochastic equations for systems with pair interactions. *Physica A* 181, 29–52 (1992); D. Helbing, Boltzmann-like and Boltzmann-Fokker-Planck equations as a foundation of behavioral models. *Physica A* 196, 546–573 (1993). 2 D. Helbing, Boltzmann-like and Boltzmann-Fokker-Planck equations as a foundation of behavioral models. *Physica A* 196, 546–573 (1993); D.

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