

# Preface

Big data analyses have uncovered many empirical laws hidden in our society and economy. Mathematical models have been introduced successfully explaining those empirical laws as typically seen in the new field of econophysics. One of the goals of this trend of research may be modeling and simulations of the whole society, which can directly contribute to the industry as well as help in decision making.

This book is the proceedings of the international conference, SMSEC2014, which was held on 4-6 November 2014 in Kobe, Japan, as a joint conference of the first “Social Modeling and Simulations” and the 10th “Econophysics Colloquium” (<http://aph.t.u-tokyo.ac.jp/smsec2014/>). It consisted of 21 invited talks, 77 oral and 53 poster presentations, with 174 participants. A variety of problems in wide fields, such as financial markets, traffic systems, epidemic contagion, and social media, were the subjects of intensive discussion. Data analysis, agent-based modeling, complex networks, and supercomputers were the examples of methods.

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