



Social Phenomena: From Data Analysis to Models (Computational Social Sciences)

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This book focuses on the new possibilities and approaches to social modeling currently being made possible by an unprecedented variety of datasets generated by our interactions with modern technologies. This area has witnessed a veritable explosion of activity over the last few years, yielding many interesting and useful results. Our aim is to provide an overview of the state of the art in this area of research, merging an extremely heterogeneous array of datasets and models. *Social Phenomena: From Data Analysis to Models* is divided into two parts. Part I deals with modeling social behavior under normal conditions: How we live, travel, collaborate and interact with each other in our daily lives. Part II deals with societal behavior under exceptional conditions: Protests, armed insurgencies, terrorist attacks, and reactions to infectious diseases. This book offers an overview of one of the most fertile emerging fields bringing together practitioners from scientific communities as diverse as social sciences, physics and computer science. We hope to not only provide an unifying framework to understand and characterize social phenomena, but also to help foster the dialogue between researchers working on similar problems from different fields and perspectives.

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Bibliography

- Sales Rank: #3795772 in Books
- Published on: 2015-08-15
- Original language: English
- Number of items: 1
- Dimensions: .81" h x 6.18" w x 9.53" l, .0 pounds
- Binding: Hardcover
- 260 pages

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Editorial Review

Review

“As a collection of state-of-the-art summaries and several interesting applications, it could easily form the foundation of multidisciplinary conversations on the future of big data and modeling and simulation to advance understanding of social phenomena. Social Phenomena would serve as a solid starting point for those researchers interested in delving into the increasingly large, available datasets to enhance their models.” (Erika Frydenlund, JASSS The Journal of Artificial Societies and Social Simulation, Vol. 19 (2), March, 2016)

“This book is essentially a reference book on data analysis and models. It does a superb job in this domain.” (M. M. Tanik, Computing Reviews, January, 2016)

From the Back Cover

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