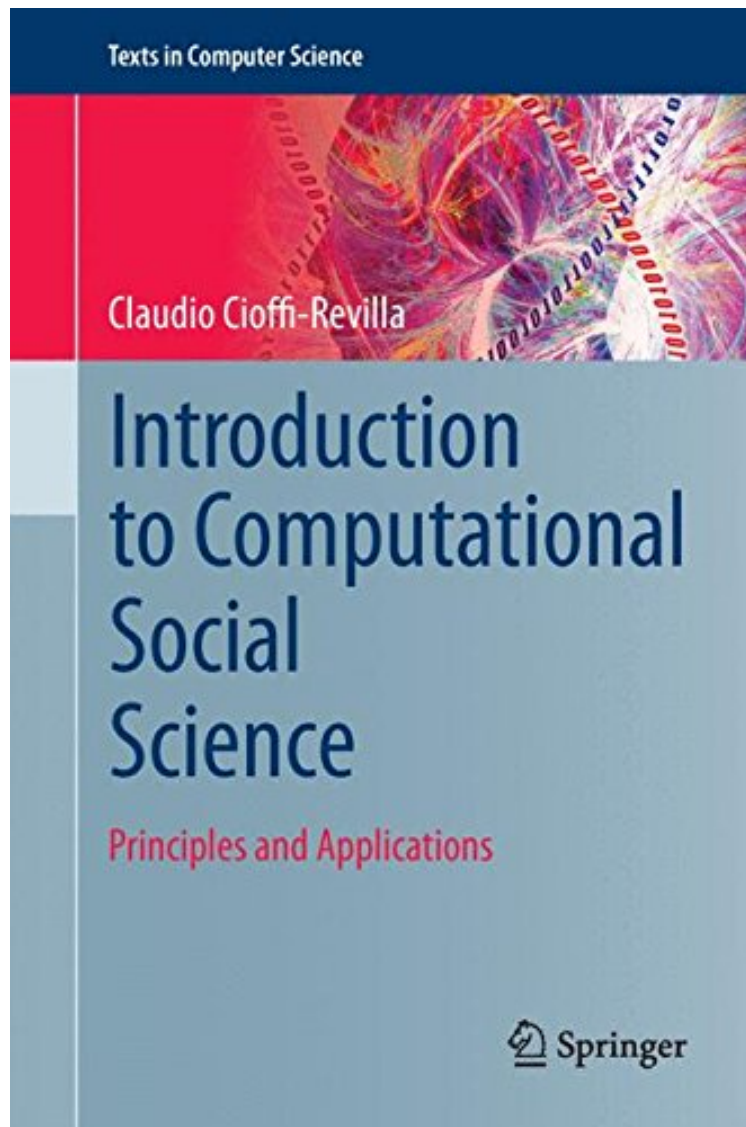


(Online library) Introduction to Computational Social Science: Principles and Applications (Texts in Computer Science)

Introduction to Computational Social Science: Principles and Applications (Texts in Computer Science)

Claudio Cioffi-Revilla

**Download PDF | ePub | DOC | audiobook | ebooks*



DOWNLOAD



READ ONLINE

#1857688 in Books Cioffi Revilla Claudio 2014-01-01Original language:EnglishPDF # 1 9.20 x .90 x 6.30l, 1.80 #File Name: 1447156609320 pagesIntroduction to Computational Social Science Principles and Applications Texts in Computer Science | File size: 74.Mb

Claudio Cioffi-Revilla : Introduction to Computational Social Science: Principles and Applications (Texts in Computer Science) before purchasing it in order to gage whether or not it would be worth my time, and all praised

Introduction to Computational Social Science: Principles and Applications (Texts in Computer Science):

This reader-friendly textbook is the first work of its kind to provide a unified Introduction to Computational Social Science (CSS). Four distinct methodological approaches are examined in detail, namely automated social information extraction, social network analysis, social complexity theory and social simulation modeling. The coverage of these approaches is supported by a discussion of the historical context, as well as by a list of texts for further reading.

Features: highlights the main theories of the CSS paradigm as causal explanatory frameworks that shed new light on the nature of human and social dynamics; explains how to distinguish and analyze the different levels of analysis of social complexity using computational approaches; discusses a number of methodological tools; presents the main classes of entities, objects and relations common to the computational analysis of social complexity; examines the interdisciplinary integration of knowledge in the context of social phenomena.

From the book reviews: This 300 pages book a very good introduction to CSS, as it covers all relevant aspects that are fundamental to start a CSS research. the book could be used for teaching methodological aspects of modeling in the social sciences . Claudio-Cioffis book is a must read for any beginner of CSS. It is a great synthesis of the main achievements in this field that could be fruitfully adopted by anyone teaching CSS as an introductory guide. (Frantiek Kalvas, jasss.soc.surrey.ac.uk, February, 2015) It is a nice introduction for beginners to grasp the fundamentals of CSS.

This well-organized book provides a timely and comprehensive systematic introduction to CSS. The chapters are relatively independent. Although this book is intended as a CSS textbook for graduate students anyone who is interested in the fundamentals of CSS would benefit from reading it. (Chenyi Hu, Computing s, August, 2014) From the Back Cover

The emerging field of computational social science (CSS) is devoted to the pursuit of interdisciplinary social science research from an information processing perspective, through the medium of advanced computing and information technologies. This reader-friendly textbook/reference is the first work of its kind to provide a

comprehensive and unified Introduction to Computational Social Science. Four distinct methodological approaches are examined in particular detail, namely automated social information extraction, social network analysis, social complexity theory, and social simulation modeling. The coverage of each of these approaches is supported by a discussion of the historical context and motivations, as well as by a list of recommended texts for further reading.

Topics and features: Describes the scope and content of each area of CSS, covering topics on information extraction, social networks, complexity theory, and social simulations Highlights the main theories of the CSS paradigm as causal explanatory frameworks that shed new light on the nature of human and social dynamics Explains how to distinguish and analyze the different levels of analysis of social complexity using computational

approaches Discusses a number of methodological tools, including extracting entities from text, computing social network indices, and building an agent-based model Presents the main classes of entities, objects, and relations common to the computational analysis of social complexity Examines the interdisciplinary integration of knowledge in the context of social phenomena

This unique, clearly-written textbook is essential reading for graduate and advanced undergraduate students planning on embarking on a course on computational social science, or wishing to refresh their knowledge of the fundamental aspects of this exciting field.

About the Author Dr. Claudio Cioffi-Revilla is Professor of Computational Social Science, founding and former Chair of the Department of Computational Social Science and founding and current Director of the Center for Social Complexity at George Mason University, VA, USA.