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Nota di contenuto	Chapter1. Exposing bot activity with PARAFAC tensor decompositions -- Chapter2. To Share or Not to Share: Effect of Peer-to-Peer Mentoring on Dynamics of Graduate Life -- Chapter3. How to code algorithms to favor public goods over private ones -- Chapter4. Institutional Emergence and the Persistence of Inequality in Hamilton, ON 1851-1861 -- Chapter5. Identifying the Risk of Clinical Trial Failures: A Text Mining Approach -- Chapter6. Islamic Extremism and the Crystallization of Norms: An Agent-Based Model of Prison Radicalization -- Chapter7. An Agent-based Modeling for Simulating Land Degradation and Food Shortage in North Korea -- Chapter8. Alleviating Traffic Congestion by the Strategy of Modal Shift from

Private Cars to Public Transports: A Case of Dhaka City, Bangladesh -- Chapter9. What Can Honeybees Tell Us about Social Learning? -- Chapter10. Understanding the Impact of Farmer Autonomy on Transportation Collaboration using Agent-based Modeling -- Chapter11. The Transmission of Information in Random Social Networks -- Chapter12. Does Socioeconomic Feedback Matter for Water Demand Models? -- Chapter13. A Popularity-Based Model of the Diffusion of Innovation on GitHub -- Chapter14. Segregation-sensitivity and Threshold-dependency in Residential Segregation -- Chapter15. Revisiting Markov Models of Intragenerational Social Mobility -- Chapter16. NetLogo meets Discrete Event Simulation -- Chapter17. Priming the W-O-M pump: Seeding Information to Increase Solar PV Adoption -- Chapter18. Modeling Schools' Capacity for Lasting Change: A System Dynamics and Simulation-Based Approach -- Chapter19. Model Structure of Agent-Based Artificial System for Reproducing Bullying Phenomenon -- Chapter20. Predictors of Rooftop Solar Adoption in Rural Virginia -- Chapter21. Using Agent-Based Modeling to Analyze Systemic Risk Within the Housing Market -- Chapter22. The Impact of Indirect Minority Influence on Diversity of Opinion and the Magnitude, Speed and Frequency of Social Change -- Chapter23. Understanding Power-Law Behaviors in Surname Distribution: An Agent-Based Analysis -- Chapter24. Evaluation Of Simulated Agent – Based Computational Models Of Civil Violence With the Boko Haram Conflict -- Chapter25. The Marginal Effects of Immigration Enforcement.

Sommario/riassunto

This book contains a selection of the latest research in the field of Computational Social Science (CSS) methods, uses, and results, as presented at the 2018 annual conference of the CSSSA. This conference was held in Santa Fe, New Mexico, October 25 – 28, 2018, at the Drury Plaza Hotel. CSS investigates social and behavioral dynamics in both nature and society, through computer simulation, network analysis, and the science of complex systems. The Computational Social Science Society of the Americas (CSSSA) is a professional society that aims to advance the field of CSS in all its areas, from fundamental principles to real-world applications, by holding conferences and workshops, promoting standards of scientific excellence in research and teaching, and publishing novel research findings. What follows is a diverse representation of new approaches and research findings, using the tools of CSS and Agent-Based Modeling (ABM) in exploring complex phenomena across many different domains. .