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Nota di contenuto	Chapter 1 - Creating Intelligent Agents: Combining Agent-Based Modeling with Machine Learning (Dale Brearcliffe and Andrew Crooks) -- Chapter 2 - Envy splits societies into a lower and a upper class (Claudius Gros) -- Chapter 3 - Effects of Non-Cognitive Factors on Post-Secondary Persistence of Deaf Students: An Agent-Based Modeling Approach (Marie Alaghband and Ivan Garibay) -- Chapter 4 - Comparing Agent-Based Modeling to Cooperative Game Theory and

Human Behavior (Andrew Collins) -- Chapter 5 - Analyzing transnational narratives in Twitter: an unsupervised approach using PARAFAC (Peter Chew and Jonathan Chew) -- Chapter 6 - In-Silico models with greater fidelity to social processes: towards ABM platforms with realistic concurrency (Santiago Núñez-Corrales, Milton Friesen, Srikanth Mudigonda, Rajesh Venkatachalapathy and Jeffrey Graham) -- Chapter 7 - Dynamics of Information Perception in Management of Commons (Saeed Langerudi, Carlos Silva and Sam Fernald) -- Chapter 8 - Psychology from Stigmergy (H. Van Dyke Parunak) -- Chapter 9 - CD-SEIZ: Cognition-Driven SEIZ Compartmental Model for the Prediction of Information Cascades on Twitter (Ece Mutlu, Ivan Garibay and Amirarsalan Rajabi) -- Chapter 10 - Cultural Drift, Indirect Minority Influence, Network Structure and Their Impacts on Cultural Change and Diversity (Jiin Jung, Aaron Bramson, William Crano, Scott Page and John Miller) -- Chapter 11 - An agent-based model to evaluate the perception of safety in informal settlements (Leticia Izquiero, Gamaliel Palomo, Arnaud Grignard, Luis Alonso, Mario Siller and Kent Larson) -- Chapter 12 - Study of Altruism as a Behavioral Trait in Game Theory Network Dynamics with Prisoner Dilemma Games (William Leibzon) -- Chapter 13 - Analyzing the potential impact of nonpharmaceutical interventions on the spread of COVID-19 (COVID-19 work in progress) (Matthew Koehler, David Slater, Garry Jacyna and James Thompson).- Chapter 14 - An Agent-Based Model of Infectious Diseases that Incorporates the Role of Immune Cells and Antibodies (Shigeaki Ogibayashi) -- Chapter 15 - Heterogeneity in populations and behaviors: An agent-based model of the social spread of COVID-19 (Nicholas Willems, Cale Reeves, Vivek Shastri and Varun Rai) -- Chapter 16 - Work In Progress: COVID-19 Policy Evaluation (CoPE) Tool: An agent-based model for ex-ante evaluation of policy designs and behavioral responses to COVID-19 (Vivek Shastri, Cale Reeves, Nicholas Willems and Varun Rai) -- Chapter 17 - Investigating dynamics of COVID-19 spread and containment with agent-based modelling (Amirarsalan Rajabi, Alexander Mantzaris, Ece Mutlu and Ivan Garibay) -- Chapter 18 - Purchasing Power to the People: An Agent-Based Simulation of Pandemic Economic Recovery (Youngsun Hwang, Joseph Immormino and Glenn-Iain Steinback) -- Chapter 19 - Agent-based models of Quadratic Voting (Jacob Kelter, Andreas Bugler and Uri Wilensky) -- Chapter 20 - Towards a model of the national market system: fragmented and heterogenous venues (Brian Tivnan, Carl Burke, Matthew Koehler, Matthew McMahon And Jason Veneman) -- Chapter 21 - Online Rejection Influence on Behavior Deviancy and Radicalization: An Agent-Based Model Approach (Hanin Alhaddad, Nisha Baral and Ivan Garibay) -- Chapter 22 - An agent-based model of digitally-mediated farmer transportation collaboration (Narjes Sadeghiamirshahidi, Anuj Mittal and Caroline Krejci) -- Chapter 23 - Geometries of Desire: Simulating Rene Girard's Mimetic Theory (Graham Sack) -- Chapter 24 - Can Institutionalization Prevent the Depletion of Groundwater Resources? (Mehdi Moghadam Manesh, Saeed Langerudi and Birgit Kopainsky).

## Sommario/riassunto

This book is comprised of the latest research into CSS methods, uses, and results, as presented at the 2020 annual conference of the Computational Social Science Society of the Americas (CSSSA). Computational social science (CSS) is the science that investigates social and behavioral dynamics through social simulation, social network analysis, and social media analysis. The CSSSA is a professional society that aims to advance the field of computational social science in all areas, including basic and applied orientations, by holding conferences and workshops, promoting standards of scientific

excellence in research and teaching, and publishing research findings and results. The above-mentioned conference was held virtually, October 8 – 11, 2020. What follows is a diverse representation of new results and approaches to using the tools of CSS and agent-based modeling (ABM) in exploring complex phenomena across many different domains. Readers will therefore not only have the results of these specific projects upon which to build, along with a wealth of case-study examples that can serve as meaningful exemplars for new research projects and activities, they will also gain a greater appreciation for the broad scope of CSS.

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