



## Agent Zero: Toward Neurocognitive Foundations for Generative Social Science (Hardback)

By Joshua M. Epstein

Princeton University Press, United States, 2014. Hardback. Condition: New. Language: English . Brand New Book. The Final Volume of the Groundbreaking Trilogy on Agent-Based Modeling In this pioneering synthesis, Joshua Epstein introduces a new theoretical entity: Agent Zero. This software individual, or agent, is endowed with distinct emotional/affective, cognitive/deliberative, and social modules. Grounded in contemporary neuroscience, these internal components interact to generate observed, often far-from-rational, individual behavior. When multiple agents of this new type move and interact spatially, they collectively generate an astonishing range of dynamics spanning the fields of social conflict, psychology, public health, law, network science, and economics. Epstein weaves a computational tapestry with threads from Plato, Hume, Darwin, Pavlov, Smith, Tolstoy, Marx, James, and Dostoevsky, among others. This transformative synthesis of social philosophy, cognitive neuroscience, and agent-based modeling will fascinate scholars and students of every stripe. Epstein s computer programs are provided in the book or on its Princeton University Press website, along with movies of his computational parables. Agent Zero is a signal departure in what it includes (e.g., a new synthesis of neurally grounded internal modules), what it eschews (e. g., standard behavioral imitation), the phenomena it generates (from genocide to financial panic), and the...



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