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| Autore | Velupillai Kumaraswamy <1947-, > |
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| Nota di bibliografia | Includes bibliographical references and indexes. |
| Nota di contenuto | <p>Computable Foundations for Economics; Copyright; Contents; Preface; General introduction; PART I Foundations; 1 The uncomputable, the nonconstructive and the undecidable in mathematical economics; 2 Advanced computational complexity theory from an elementary standpoint; 3 Economic dynamics and computation - recursion theoretic foundations for the Icarus tradition; 4 Let's take the con out of mathematical economics; PART II General equilibrium theory; 5 Effectivity and constructivity in economic theory; 6 Algorithmic foundations of computable general equilibrium theory</p> <p>7 Uncomputability and undecidability in economic theory</p> <p>PART III Methodology; 8 The unreasonable ineffectivity of mathematics in economics; 9 Aconstructive interpretation of Sraffa's mathematical economics; 10 The computable alternative in the formalization of economics: a counterfactual essay; PART IV Simon's behavioural economics: a computable vision; 11 Computable rationality, computation universality and adaptive behaviour; 12 Boundedly rational choice and satisficing decisions; 13 Arithmetic games, beavers and behavioural economics; Appendix 1 Artificing a rationally unbounded life</p> <p>Appendix 2 The logic of discovery, problem solving and retrodiction</p> <p>Appendix 3 Herbert Simon's letters regarding Computable Economics; PART V Inductive reflections; 14 De-mystifying induction, falsification and other Popperian extravaganzas; 15 Re-reading Jevons's Principles of Science - induction redux; 16 Impossibility of effectively computable inductive policies in a complex dynamic economy; PART VI Concluding notes; 17 Epilogue - a research program for the algorithmic social sciences; Author index; Subject index</p> |
| Sommario/riassunto | <p><P>Computable Foundations for Economics is a unified collection of essays, some of which are published here for the first time and all of which have been updated for this book, on an approach to economic theory from the point of view of algorithmic mathematics. By algorithmic mathematics the author means computability theory and constructive mathematics. This is in contrast to orthodox mathematical economics and game theory, which are formalised with the mathematics of real analysis, underpinned by what is called the ZFC formalism, i.e., set theory with the axiom of choice. This relia</p> |