

1. Record Nr.	UNINA9910788348303321
Autore	Monroe Hunter
Titolo	Can Markets Compute Equilibria? // Hunter Monroe
Pubbl/distr/stampa	Washington, D.C. : , : International Monetary Fund, , 2009
ISBN	1-4623-3560-8 1-4527-9750-1 9786612842467 1-4518-7171-6 1-282-84246-3
Descrizione fisica	1 online resource (22 p.)
Collana	IMF Working Papers
Soggetti	Computational complexity Electronic data processing Macroeconomics Noncooperative Games Microeconomic Behavior: Underlying Principles Price Level Inflation Deflation Asset prices Prices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents; I. Introduction; II. Is Computing Equilibria Difficult?; Table; 1. Payoff Matrix for the Prisoner's Dilemma; Figures; 1. NP-complete: Is there a Hamilton Cycle?; 2. P: Is this a Hamilton Cycle?; III. Are There Natural Problems with No Best Algorithm?; A. Superlinear vs. Blum Speedup; B. No Best Algorithm for Integer and Matrix Multiplication?; 3. Boolean circuit: Are at least two inputs "TRUE"?; C. The Power of Cancellation; D. No Best Algorithm for coNP-Complete Problems?; E. No Best Algorithm Versus No Algorithm at All; IV. Conclusion; 4. Is speedup inherited?; References

Recent turmoil in financial and commodities markets has renewed questions regarding how well markets discover equilibrium prices, particularly when those markets are highly complex. A relatively new critique questions whether markets can realistically find equilibrium prices if computers cannot. For instance, in a simple exchange economy with Leontief preferences, the time required to compute equilibrium prices using the fastest known techniques is an exponential function of the number of goods. Furthermore, no efficient technique for this problem exists if a famous mathematical conjecture is correct. The conjecture states loosely that there are some problems for which finding an answer (i.e., an equilibrium price vector) is hard even though it is easy to check an answer (i.e., that a given price vector is an equilibrium). This paper provides a brief overview of computational complexity accessible to economists, and points out that the existence of computational problems with no best solution algorithm is relevant to this conjecture.

2. Record Nr.

UNINA9910137063403321

Titolo

Bibliotheque d'humanisme et Renaissance : travaux et documents

Pubbl/distr/stampa

Geneve, : Librairie Droz, 1941-

ISSN

2418-7135

Disciplina

901

Soggetti

Renaissance
Humanism
History
Humanities
Humanisme
Histoire
Sciences humaines
history (discipline)
humanities
Humanisme (cultuurgeschiedenis)
Periodical
periodicals.
Periodicals.
Periodiques.

Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Vols. for 1941- includes section "Notes et documents."