

Preface

Computational or algorithmic economics is an interdisciplinary field combining computer science and economics to efficiently solve computationally-expensive problems in economics. Some of these areas are unique, while others established areas of economics by allowing robust data analytics and solutions of problems that would be arduous to research without computers and associated numerical methods.

Major advances in computational economics include search and matching theory, game theory, the theory of linear programming, algorithmic mechanism design, and fair division algorithms.ⁱ

In the present book, ten typical literatures about computational economics published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on computational economics. We hope this book can demonstrate advances in computational economics as well as give references to the researchers, students and other related people.

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ⁱ https://en.wikipedia.org/wiki/Computational_economics