

[Home](#) > [Review of Economic Design](#) > Article

Uniqueness of Arrow-Debreu and Arrow-Radner equilibrium when utilities are additively separable

| Original papers | Published: September 2001

| Volume 6, pages 155–173, (2001) [Cite this article](#)[Save article](#) [View saved research](#) >

[Review of Economic Design](#)

[Aims and scope](#) →[Submit manuscript](#) →[Rose-Anne Dana](#)¹[152](#) Accesses [8](#) Citations [Explore all metrics](#) →

Abstract.

This survey paper has three purposes: We first present in finite dimension, different approaches to the problem of uniqueness of Arrow-Debreu equilibrium when agents have additively separable utilities. We then study how, in the specific framework of a two period contingent good economy the results obtained generalize to infinite dimension. We consider economies where agents' consumption space is $(L^p_+ + (\mu)); 1 \leq p \leq \infty$ and agents' utilities are additively separable. Lastly, we show that in some restricted settings, some results may be used to prove uniqueness of Arrow-Radner equilibria when there are incomplete financial markets.

Access this article

[Log in via an institution](#) →

Subscribe and save

Springer+

from €37.37 /Month

- Starting from 10 chapters or articles per month
- Access and download chapters and articles from more than 300k books and 2,500 journals
- Cancel anytime

[View plans](#) →

Buy Now

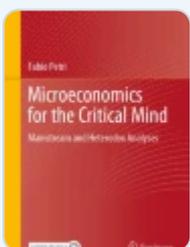
[Buy article PDF 39,95 €](#)

Price includes VAT (Poland)

Instant access to the full article PDF.

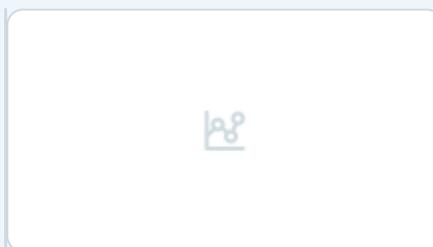
[Institutional subscriptions](#) →

Similar content being viewed by others



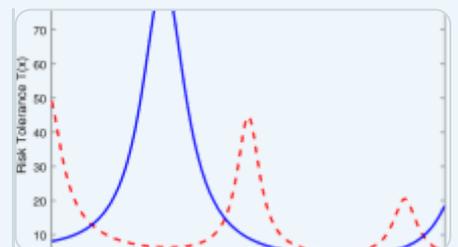
Consumers and the Exchange Economy.

Chapter | © 2021



Non-implementability of Arrow-Debreu equilibria by continuous trading under volatility uncertainty.

Article | 18 April 2018



Evolution of the Arrow-Pratt measure of risk-tolerance for predictable forward utility processes

Article | 10 December 2020

Explore related subjects

Discover the latest articles, books and news in related subjects, suggested using machine learning.

[European Economic Law](#)

[General Economical Equilibrium](#)

[Heterodox Economics](#)

[Market Structure and Economic Design](#)

[Philosophy of Economics](#)

[Functional Analysis](#)

Author information

Authors and Affiliations

**Ceremade, Université Paris IX - Dauphine, Place du maréchal De Lattre de Tassigny, 75775 Paris, France (e-mail: dana@ceremade.dauphine.fr) , , , , ,
, FR**

Rose-Anne Dana

Rights and permissions

[Reprints and permissions](#)

About this article

Cite this article

Dana, RA. Uniqueness of Arrow-Debreu and Arrow-Radner equilibrium when utilities are additively separable. *Rev Econ Design* **6**, 155–173 (2001). <https://doi.org/10.1007/PL00013700>

Issue date

September 2001

DOI

<https://doi.org/10.1007/PL00013700>

Keywords

Search

Search by keyword or author



Navigation

Find a journal

Publish with us

Track your research