Econometric Reviews > Volume 12, 1993 - Issue 2

355 108

Views CrossRef citations to date Altmetric

Original Articles

A compendium to information theory in economics and econometrics

Esfandiar Maasoumi1

Pages 137-181 | Published online: 03 Apr 2007

66 Cite this article

Sample our Business & Industry Journals >> Sign in here to start your access to the latest two volumes for 14 days

References

66 Citations

Metrics

Reprints & Permissions

Read this article

Abstract

An extensive synthesis is provided of the concepts, measures and techniques of Information Theory (IT). After an axiomatic description of the basic definitions of "information functions", "entropy" or uncertainty and the maximum entropy principle, the paper demonstrates the power of IT as both an interpretive and techinically productive tool. It is argued that this power and universality is promarily due to the common need for (i) measures of distance and discrimination and, (ii) appropriate partitioning- aggregation properties. IT offers a very suggestive unification for a

bewilder

About Cookies On This Site

Applicat econom seled genera and rand

function

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our Privacy Policy

lisciplines. Accept All Essential Only and model on is the Settings tributions ation and

measures of volatility, movility and divergence are presented. Extending the author's

previous work, estimation of unknown regression functions, densities and score functions is examined based on the maximum entropy principle. Some empirical examples are cited.

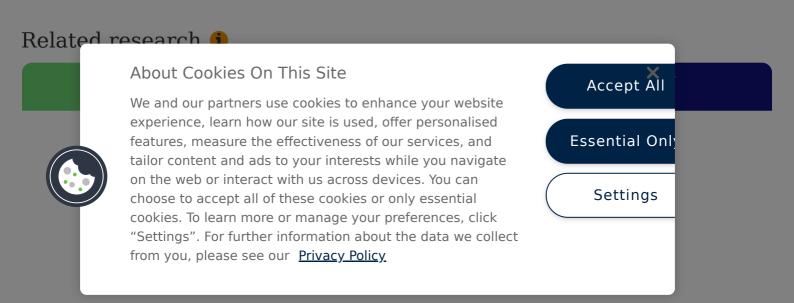
Q Keywords: Information theory entropy inequality tests adaptive estimation MLE distance functions uncertainty aggregation nonparametrics

This paper is an extension and update to my previous surveys in this area, Maasoumi (1988b,1990). For comments and discussions I thank J.Foster, A. Ullah, reviewers and seminar participants at UC Santa Barbara, UC Riverside, UC San Diego, SMU, Guelph, ESEM Brussels (Aug.92), Houston and Rice

This paper is an extension and update to my previous surveys in this area, Maasoumi (1988b,1990). For comments and discussions I thank J.Foster, A. Ullah, reviewers and seminar participants at UC Santa Barbara, UC Riverside, UC San Diego, SMU, Guelph, ESEM Brussels (Aug.92), Houston and Rice

Notes

This paper is an extension and update to my previous surveys in this area, Maasoumi (1988b,1990). For comments and discussions I thank J.Foster, A. Ullah, reviewers and seminar participants at UC Santa Barbara, UC Riverside, UC San Diego, SMU, Guelph, ESEM Brussels (Aug.92), Houston and Rice



Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up











Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions



Accessibility

Registered in England & Wales No. 3099067 5 Howick Place | London | SW1P 1WG

About Cookies On This Site



We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our Privacy Policy



Essential Onl

Settings