

A measure of the influence of communism in a capitalist economy

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Abstract

In this paper, I describe a measure of the influence of communism in a capitalist economy.
The paper ends with "The End"

Introduction

Measures of the influence of communism in a capitalist economy are essential
for the capitalist economy to counter communism.
In this paper, I describe a measure of the influence of communism in a capitalist economy.

A measure of the influence of communism in a capitalist economy

Let $P(t)$ be the price of a m -year government bond of the capitalist economy of face value $F(t)$.
Let $Q(t)$ be the price of a n -year government bond of the communist economy of face value $G(t)$.

Calculate

$$\theta(t) = \sqrt[m]{\frac{F(t) - P(t)}{P(t)}}$$

and

$$\phi(t) = \sqrt[n]{\frac{G(t) - Q(t)}{Q(t)}}$$

Calculate the similarity

$$\kappa = \text{sim}(\theta(t), \phi(t))$$

and the correlation

$$\lambda = \text{corr}(\theta(t), \phi(t))$$

Then, a measure of the influence of communism in a capitalist economy is

$$\iota = \sqrt{\frac{\kappa^2 + \lambda^2}{2}}$$

Corollary: A measure of the influence of capitalism in a communist economy

Conversely, a measure of the influence of capitalism in a communist economy is $(1 - \iota)$.

The End