The academy

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Abstract

In this paper, I describe the academy.
The paper ends with "The End"

Introduction

In previous papers, I've described various organizations including the market, the firm, the temple/mosque/church, the jail, the bazaar, the company, the corporation, the multi-national corporation and the hospital.
In previous papers, I've described the four discount factor and three discount factor theorems.
In this paper, I describe the academy.

The academy

The academy is the **holy grail** of all national soldiers, irrespective of their nation of origin.
Any national soldier that pledges allegiance to the academy is an honourable member of the academy.
Therefore, the academy serves as a **force** of its own, distinct from all militaries in any individual nation and is **bound to act** when all else in an economy or a nation approaches failure or fails.
Such an allegiance **can't be** and **isn't** expected of all national soldiers of all nations and therefore, not all national soldiers are suitable for membership of the academy.

Synonyms of academy

Academies throughout history have also been called
loyal guards or **phalanxes** or **legions** or **battalions** or **leagues**.
Even the contemporary **United Nations** is basically an academy.

The mathematics of the academy

Suppose there are n nations in existence.
Let $a_i(t)$ be the number of academics of nation i at time t.
Let $K_j^i(t)$ be the price of the knowledge of the j^{th} academic of the i^{th} nation at time t where $1 \leq j \leq a_i(t)$.
Then the price of the academy is

$$A(t) = \sum_{i=1}^{n} \frac{\sum_{j=1}^{a_i(t)} \frac{K_j^i(t)}{1+r_{f_i}(t)+\phi_j^i(t)}}{1 + r_{f_i}(t) + p_{a_i}(t)}$$

where
$r_{f_i}(t)$ is the risk-free rate of the i^{th} nation
$p_{a_i}(t)$ is the academic premium of the i^{th} nation
$\phi_j^i(t)$ is the academic premium of the j^{th} national soldier of the i^{th} nation

The in-equation of strategy of the i^{th} nation

The in-equation of strategy of the i^{th} nation is

$$0 \leq p_{a_i}(t) \leq \sum_{j=1}^{a_i(t)} \phi_j^i(t)$$

The in-equation of strategy of the j^{th} soldier of the i^{th} nation

The in-equation of strategy of the j^{th} soldier of the i^{th} nation is

$$0 \leq \phi_j^i(t) \leq p_{a_i}(t)$$

The psychology of an academy

The psychology of an academy can be known **only** through prolonged membership of that academy as the psychology of an individual academic is a personal secret.
Therefore, the complete knowledge of a foreign academy is **rarely** known **unless** either

1. The foreign academy has chosen to make its information public for filtration into knowledge, propaganda and asymmetric information

   and/or

2. The foreign economy is near collapse or has collapsed

   and/or

3. The foreign nation has been invaded and/or defeated

The End