

The Warfare Economics of the Standard Nuclear oliGARCHy

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Abstract

In this paper, I describe the warfare economics of the Standard Nuclear oliGARCHy.
The paper ends with “The End”

Introduction

The Standard Nuclear oliGARCHy has robust resilience to war.
In this paper, I describe the warfare economics of the Standard Nuclear oliGARCHy.

Preliminaries

Define the two functions

$$f(i) = \arctan\left(\frac{2}{i^2}\right)$$

$$g(j, k) = \arctan(\tanh(jk))$$

The supply in the nine districts are

$$S = \Sigma \times \{s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9\}$$

where

$$s_i = \frac{f(i)}{\sum_{i=1}^9 f(i)} \text{ for } i \in \{1, 2, \dots, 9\}$$

The demand in the nine districts are

$$D = \Delta \times \{d_1(r), d_2(r), d_3(r), d_4(r), d_5(r), d_6(r), d_7(r), d_8(r), d_9(r)\}$$

where

$$d_j(r) = \frac{g(j, r)}{\sum_{j=1}^9 g(j, r)} \text{ for } j \in \{1, 2, \dots, 9\}$$

and r is the risk free-rate.

Before the attack,

$$\Sigma = \Delta$$

and

$$\left(\sum_{i=1}^9 s_i\right) (1 + r + p) = \left(\sum_{j=1}^9 d_j(r)\right) (1 + r + q)$$

where

$$p, q, r \cong 0$$

The Warfare Economics of the Standard Nuclear oliGARCHy

When the attack happens, the warfare economics of the Standard Nuclear oliGARCHy is:

1. Estimate the psychological threshold τ
2. Estimate the perturbed values of Σ and Δ
3. Compute and store the values of P , Q , R , S and T using the following formulae:

(a)

$$P = \Delta^4 \tau^4 + 2\Delta^4 \tau^2 + \Delta^4 + 2\Delta^2 \Sigma^2 \tau^4 + 4\Delta^2 \Sigma^2 \tau^2 + 2\Delta^2 \Sigma^2 + \Sigma^4 \tau^4 + 2\Sigma^4 \tau^2 + \Sigma^4 \quad (1)$$

(b)

$$Q = 4\Sigma^4 - 4\Delta^3 \Sigma \tau^4 - 8\Delta^3 \Sigma \tau^2 - 4\Delta^3 \Sigma + 4\Delta^2 \Sigma^2 \tau^4 + 8\Delta^2 \Sigma^2 \tau^2 + 4\Delta^2 \Sigma^2 - 4\Delta \Sigma^3 \tau^4 - 8\Delta \Sigma^3 \tau^2 - 4\Delta \Sigma^3 + 4\Sigma^4 \tau^4 + 8\Sigma^4 \tau^2 \quad (2)$$

(c)

$$R = 6\Sigma^4 - 4\Delta^4 \tau^6 - 2\Delta^4 \tau^4 + 4\Delta^4 \tau^2 + 2\Delta^4 - 12\Delta^3 \Sigma \tau^4 - 16\Delta^3 \Sigma \tau^2 - 4\Delta^3 \Sigma - 4\Delta^2 \Sigma^2 \tau^6 + 12\Delta^2 \Sigma^2 \tau^2 + 8\Delta^2 \Sigma^2 - 4\Delta \Sigma^3 \tau^4 - 16\Delta \Sigma^3 \tau^2 - 12\Delta \Sigma^3 + 2\Sigma^4 \tau^4 + 8\Sigma^4 \tau^2 \quad (3)$$

(d)

$$S = 8\Delta^3 \Sigma \tau^6 + 20\Delta^3 \Sigma \tau^4 + 8\Delta^3 \Sigma \tau^2 - 4\Delta^3 \Sigma - 8\Delta^2 \Sigma^2 \tau^6 - 28\Delta^2 \Sigma^2 \tau^4 - 8\Delta^2 \Sigma^2 \tau^2 + 12\Delta^2 \Sigma^2 + 12\Delta \Sigma^3 \tau^4 - 12\Delta \Sigma^3 - 4\Sigma^4 \tau^4 + 4\Sigma^4 \quad (4)$$

(e)

$$T = 4\Delta^4 \tau^8 - 4\Delta^4 \tau^6 - 11\Delta^4 \tau^4 - 6\Delta^4 \tau^2 + \Delta^4 + 24\Delta^3 \Sigma \tau^6 + 28\Delta^3 \Sigma \tau^4 + 16\Delta^3 \Sigma \tau^2 - 4\Delta^3 \Sigma - 12\Delta^2 \Sigma^2 \tau^6 - 10\Delta^2 \Sigma^2 \tau^4 - 16\Delta^2 \Sigma^2 \tau^2 + 6\Delta^2 \Sigma^2 - 4\Delta \Sigma^3 \tau^4 + 8\Delta \Sigma^3 \tau^2 - 4\Delta \Sigma^3 + \Sigma^4 \tau^4 - 2\Sigma^4 \tau^2 + \Sigma^4 \quad (5)$$

4. Compute and store the positive zeroes $p \in [0, 1]$ of

$$Px^4 + Qx^3 + Rx^2 + Sx + T = 0$$

5. Compute and store

$$q = \sqrt{2\tau^2 - p^2}$$

6. Compute and store

$$r = \sqrt{1 - \frac{1 - \tau^2}{1 + \tau^2}}$$

7. Activate war plan(s) and/or protocol(s).

8. Wait until

$$\left(\sum_{i=1}^9 s_i \right) (1 + r + p) = \left(\sum_{j=1}^9 d_j(r) \right) (1 + r + q)$$

References

- [1] Ghosh S. (2025). The Complete Treatise on the Standard Nuclear oliGARCHy. Kolkata, India.
Available online at <https://github.com/TheRealoliGARCH/SNoG>

The End