The investigation of truths

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Abstract

In this paper, I describe the investigation of truths.
The paper ends with "The End"

Introduction

The **ground truth** is **every individual has their own truth**, i.e., $T_G = n$
Therefore, the **zeroth truth** is **there are as many truths as there are individuals plus one**, i.e.,
$$T_0 = T_G + 1 = n + 1$$

In this paper, I describe the **investigation of truths**.

The investigation of truths

Suppose, other than T_G, the remaining n truths are t_i where $i \in \{1, 2, \ldots, n\}$.

To obtain the first-degree investigated truth we solve

$$T_1 - e = 0$$

To obtain two second-degree investigated truths we solve

$$T_2{}^2 - T_1 T_2 + e^2 = 0$$

To obtain six third-degree investigated truths we solve

$$T_3{}^3 - T_2 T_3{}^2 + T_1 T_3 - e^3 = 0$$

and so on. . .

To obtain $n!$ n^{th}-degree investigated truths we solve

$$T_n{}^n + \sum_{i=1}^{n-1} (-1)^i T_{n-i} T_n{}^{n-i} + (-1)^n e^n = 0$$

Hence, if n is finite, we obtain $n!$ n^{th}-degree investigated truths.

The End