Ch. 3 Language

1 Definition of Expression

Just set theory notation and operators

2 Universe of all expressions

Define $\mathcal{E}$, the universe of all expressions

$$e_i \in \mathcal{E}, \quad \forall i$$

3 Definition of Universal Expression

is a member of $\mathcal{D}$

4 Definition of Divergent Expression

$e_i \in \hat{\mathcal{D}}$, $e_i \notin \mathcal{D}$, $\forall i$

5 Definition of Language

Define language $\mathcal{L}$, a set of expressions inheriting from $\mathcal{D}$ and/or $\hat{\mathcal{D}}$

A set of consistent + inconsistent expressions to describe $\mathcal{D}$

6 Definition of Translation

Define "translation" or "mapping function" or function from $\mathcal{L}_{in}$ to $\mathcal{L}_{out}$ potentially introducing new paraconsistent statements

6.1 Definition of Complete Translation

Maps every element

6.2 Definition of Incomplete Translation

Maps some elements but not all

6.3 Definition of Inconsistent Translation

Maps some elements but introduces new paraconsistent statements

7 Fundamental Theorem of Language

All language is an inconsistent translations of $\mathcal{D}$ implying $\mathcal{D}$ has a finite magnitude that can never be expressed

Language allows for divergent expressions

The objective of language is to express $\mathcal{D}$

Conjecture: $\hat{\mathcal{D}} \neq \mathcal{D}$ contains inconsistent (or incomplete) expressions

The below sections might point to a universal theorem of language

Outline Proof of no universal translation implies no universal language? not necessarily yet so the best we can do is a paraconsistent ndimensional language manifold with positive entropy

8 Definition of Universal Translation

9 Theorem: A Universal Translation implies a Universal Language

10 Descriptions

10.1 Definition

10.2 The Universe of all Descriptions

Define $\hat{\mathcal{E}}$ as the set of all descriptions

$$\hat{e}_i \in \hat{\mathcal{E}}, \quad \forall i$$

10.3 Definition of Divergent Description

10.4 Define $\hat{D}$ the set of all problems that be described

10.5 Definition of $D_\perp$

$\mathcal{D}_\perp \equiv Universe - \mathcal{D}$
The Null Set of D, the set of problems that be described but not expressed

11 Conjecture: A Universal Translation doesn't exist

12 Definition of Universal Language "N dimensional Language Manifold"

Universal Language, divergent N dimensional language manifold describing $\mathcal{D}$ and $\hat{\mathcal{D}}$

13 Language is a mapping function to $\mathcal{K}$

Language is portal to certain parts of the Universal Knowledge Plane

14 Conjecture: There exist Divergent Expression, There exists divergent description)

Direct translation from $\mathcal{E}$ to language $\mathcal{L}_j$

This statement is false Let statement a_i = True
Assert $!a$ Could it be described as an expression?

15 Conjecture: Infinity is a Divergent Expression

16 Conjecture: Prime Numbers is a Divergent System