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Mathematical & Philosophical Guide

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research/

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Text	Text	Text
XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	“ ” ”XXXXXXXXXXXX “ ” XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX “ ”	XXXXXXXXXXXX “ XXXXXXXXXXXX $\Omega = \{X,$ $\dot{X}\}$XXXXXXXX $\text{\{} \equiv \{X\} \neq 0$ “ ” /XXXX $\hat{K}$ XXXXXXXX $\text{\{} \equiv \{X\} = 0$XXXX / XXXX $\hat{V}$XXXXXXXX XXXXXXXXXXXX $\mathcal{H}$ $= \hat{K} + \hat{V}$
XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXX	“ ” ”XXXXXXXXXXXX “ ” XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX “ ” “ ”XXXXXXXXXXXX “ ” XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX “ XXXXXXXXXXXX $\theta(t) = \omega$ t $\text{\{}(t) = \max(0, \sin \theta)$ XXXXXXXXXXXX 0 $\text{\{}(t) = \max(0, -\sin \theta)$ XXXXXXXXXXXX π XXXXXXXXXXXX $\pi/2$ XXXXX $\text{\{}(t) = \max(0, \cos \theta)$ $\text{\{}(t) = \max(0, -\cos$ $\theta)$ XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXX	XXXXXXXXXXXX “ XXXXXXXXXXXX $E_{\{\text{sky}\}} =$ $\{0, 1\}^2$ $\begin{aligned} \text{\{} \end{aligned} \&=$
XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXX	XXXXXXXXXXXX “ XXXXXXXXXXXX $M_{\{\text{earth}\}}$ $= \{0, 1\}^2$ $\begin{aligned} \text{\{} \end{aligned} \&=$

Overview	Methodology	Results and Discussion
Abstract Introduction Background Conclusion	Methodology Experimental Design Data Collection Analysis Results	Information Complexity Metric $C(k) = 10^k$ for $k \in \{0, 1, 2, 3, 4, 8, 12\}$ $k = \log_{10}(C)$ 10^0 10^3 10^4 10^{12} 10^{12}
Methodology Experimental Design Data Collection Analysis Results	Methodology Experimental Design Data Collection Analysis Results	Eigenvector Centrality $\mathbf{A}$ $\mathbf{v}$ $\lambda \mathbf{v} = \mathbf{A} \mathbf{v}$ $\mathbf{v}$ Degree Centrality $\text{Centrality}(\mathbf{v}) = \max_i \sum_j A_{ij} \sim 10^{12}$
Methodology Experimental Design Data Collection Analysis Results	Methodology Experimental Design Data Collection Analysis Results	Hierarchical Cognitive Processing $L_1 = \{\text{A}, \text{B}, \text{C}, \text{D}, \text{E}, \text{F}, \text{G}, \text{H}, \text{I}, \text{J}, \text{K}, \text{L}, \text{M}, \text{N}, \text{O}, \text{P}, \text{Q}, \text{R}, \text{S}, \text{T}, \text{U}, \text{V}, \text{W}, \text{X}, \text{Y}, \text{Z}\}$ $L_2 = \{\text{A}, \text{B}, \text{C}, \text{D}, \text{E}, \text{F}, \text{G}, \text{H}, \text{I}, \text{J}, \text{K}, \text{L}, \text{M}, \text{N}, \text{O}, \text{P}, \text{Q}, \text{R}, \text{S}, \text{T}, \text{U}, \text{V}, \text{W}, \text{X}, \text{Y}, \text{Z}\}$ $L_3 = \{\text{A}, \text{B}, \text{C}, \text{D}, \text{E}, \text{F}, \text{G}, \text{H}, \text{I}, \text{J}, \text{K}, \text{L}, \text{M}, \text{N}, \text{O}, \text{P}, \text{Q}, \text{R}, \text{S}, \text{T}, \text{U}, \text{V}, \text{W}, \text{X}, \text{Y}, \text{Z}\}$ $L_4 = \{\text{A}, \text{B}, \text{C}, \text{D}, \text{E}, \text{F}, \text{G}, \text{H}, \text{I}, \text{J}, \text{K}, \text{L}, \text{M}, \text{N}, \text{O}, \text{P}, \text{Q}, \text{R}, \text{S}, \text{T}, \text{U}, \text{V}, \text{W}, \text{X}, \text{Y}, \text{Z}\}$

Abstract

Introduction

Background

Conclusion

Methodology

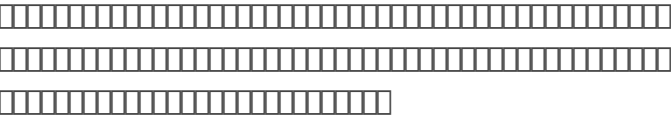
Experimental Design

Data Collection

Analysis

Results

- $$N = 10^k$$



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第一列	第二列	第三列
第一行第一列内容 第二行第一列内容 第三行第一列内容 第四行第一列内容 	第一行第二列内容 第二行第二列内容 第三行第二列内容 第四行第二列内容 第五行第二列内容 第六行第二列内容	第一行第三列内容 \$4 \times 4\$ Phase Matrix $\mathbf{B}_1$ $\mathbf{B}_2$ $\mathbf{B}_3$ $\mathbf{B}_4$ M_{16} $\mathbf{M} = \mathbf{B} \otimes$ $\mathbf{B}^T = \begin{bmatrix}$ $\end{bmatrix}$ $\end{bmatrix}$
第一行第一列内容 第二行第一列内容	第一行第二列内容 “ ” “ ” “ ” “ ” “ ” “ ” “ ”	第一行第三列内容 $\begin{aligned}$ (Spring) $\implies \text{(Entropy } S_0$ $\text{Summer}) \implies \text{(Entropy } S_1$ $\text{Autumn}) \implies \text{(Entropy } S_2$ $\text{Winter}) \implies \text{(Entropy } S_3$ $\end{aligned}$
第一行第一列内容 第二行第一列内容 第三行第一列内容 第四行第一列内容 	第一行第二列内容 “ ” “ ” “ ” “ ” “ ” “ ” “ ”	第一行第三列内容 $\mathcal{L} = T -$ V $V = 0$ ∇ $V_{\text{ }}$ $V_{\text{ }}$ $\vec{F}$ $\text{ }} = -\nabla V_{\text{ }}$ $\text{ }}$

[illegible]

[illegible]

Input	Process	Output
112 152 17024	112 152 17024	Universal Transformation Number $\Delta_{\{x\}} = U_{\{x\}} \times U_{\{x\}}$ $\Delta_{\{x\}} = U_{\{x\}} \times U_{\{x\}}$ $\mathbf{N}_{\{x\}} = 112 \times 152 = 17,024$
112 152	112 152	$\mathcal{P}_{3/4}(X) = X \times \frac{3}{4} = X - \frac{1}{4}X$ $360 \times 90 = 270$ $216 \times 6 = 144$ $144 \times 6 = 216$ $216 + 144 = 360$

11215217024

11215217024

- 11215217024 “11215217024” “11215217024”
- 160112192152
- 11215217024 \$112 \times 152 = 17,024\$ 17024\$ Modulus17024\$ 17024\$

11215217024

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112152

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Kronecker Product11215217024

[illegible]

Entity	Properties	Relationships
Entity 1 Entity 2	Property 1 Property 2 Property 3 Property 4 Property 5 Property 6 Property 7	Relationship 1 Ontological Determinism Relationship 2 $\text{Entity} \in \mathbb{F}^{2^{16}}$ $\text{Entity} = \bigotimes_{k=1}^8$



Entity

Property

Relationship

Ontological Knowledge Graph & Decision Tree

- Entity 1

4

16

16

$256 \times 256 = 65,536$
 2^{16}
- Entity 2

16-bit Word
- Entity 3

Decision Tree



Entity 1

Entity 2

Entity 3

“Entity 1”

“Entity 2”

“Entity 3”

[illegible]

Projection onto

$$\frac{8 \times 7}{2} = 28 \square$$

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□□□□□□□□□□□□	□□□□□□□□□□□□	□□□□□ $\mathbb{Z}_2$
□□□□□□□□□□□□	□□□□□□□□□□□□	Group Action on $\{0, 1\}^3$ □ □
□	□□□□□ “□□”	□□□□□□□ $\sigma([b_1,$
	□□□□□□□□□□□□	$b_2, b_3]) = [b_3, b_2, b_1]$ □
	□□□□□□□□ “□□□”	□□□□□□□□
	□□□□□□□□□□□□	$\text{Fix}(\sigma) = \{ \vec{g}$
	□□□□□□□□□□□□	$\mid \sigma(\vec{g}) = \vec{g} \} =$
	□□□□□□□□□□	$\{ \text{□}, \text{□}, \text{□},$
		$\text{□} \} \quad (4 \text{□})$
		□□□□□□□□
		$\$$

Iteration	Iteration	Iteration
Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5	Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5 Iteration 6 Iteration 7 Iteration 8 Iteration 9 Iteration 10 Iteration 11 Iteration 12	Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5 Iteration 6 Iteration 7 Iteration 8 Iteration 9 Iteration 10 Iteration 11 Iteration 12
Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5	Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5 Iteration 6 Iteration 7 Iteration 8 Iteration 9 Iteration 10 Iteration 11 Iteration 12	Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5 Iteration 6 Iteration 7 Iteration 8 Iteration 9 Iteration 10 Iteration 11 Iteration 12
Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5	Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5 Iteration 6 Iteration 7 Iteration 8 Iteration 9 Iteration 10 Iteration 11 Iteration 12	Iteration 1 Iteration 2 Iteration 3 Iteration 4 Iteration 5 Iteration 6 Iteration 7 Iteration 8 Iteration 9 Iteration 10 Iteration 11 Iteration 12

变量名	数据类型	初始化/声明
int Qian; int Kun; int Total;	int Qian = 6 * 6 * 6 = 216; int Kun = 12 * 12 = 144; int Total = Qian + Kun = 216 + 144 = 360;	int Qian = 6^3 = 6 * 6 * 6 = 216; int Kun = 12^2 = 12 * 12 = 144; int Total = Qian + Kun = 216 + 144 = 360;
int Ursa; int Ratio; int Daylight; int DutyCycle;	int Ursa = 7 * 10 = 70; int Ratio = 70 / 100 = 70; int Daylight = 70; int DutyCycle = 70;	int Ursa = 7 * 10 = 70; int Ratio = 70 / 100 = 70; int Daylight = 70; int DutyCycle = 70;

int Qian;

int Kun;

- int Qian = 6^3=216\$ int Kun = 12^2=144\$ int Total = 360

int Ursa;

int Ratio = 70 / 100 = 70\$ int Daylight = 70\$ int DutyCycle = 70\$

int Ursa;

int Ratio;

int Daylight;



1.

flowchart TD

```
subgraph Axiom["Axioms"]
    A1[" $\text{Axiom 1: } \dots / \dots$ "]
    A2[" $\text{Axiom 2: } \dots 10 \dots / \dots / 4 \dots 1$ "]
end

subgraph Geometry["Geometry"]
    B1[" $\text{B1: } \dots \leftrightarrow \dots / 10^k$ "]
    B2[" $\text{B2: } \dots \text{Burnside} \dots / 8 \dots + 28 \dots$ "]
    B3[" $\text{B3: } \dots / 216 + 144 = 360 / \dots$ "]
end

subgraph Dynamics["Dynamics"]
    C1[" $\text{C1: } \dots 4 \times 4 \dots / \dots$ "]
    C2[" $\text{C2: } \dots \mathbf{v} \cdot \mathbf{v}^T / 16 \dots$ "]
    C3[" $\text{C3: } \dots 360^1 \dots 360^{16} \dots$ "]
end

subgraph Computation["Computation"]
    D1[" $\text{D1: } \dots 112 / \dots 152 / \dots 17024$ "]
    D2[" $\text{D2: } \dots 384 \rightarrow 360 \rightarrow 256 \dots$ "]
    D3[" $\text{D3: } \dots / 2^{16} = 65536 \dots$ "]
    D4[" $\text{D4: } \dots / \dots$ "]
end

A1 --> B1 --> C1 --> D1
A2 --> B2 --> C2 --> D2
B3 --> C3 --> D3 --> D4
```

2.



```
# coding: utf-8
class ShaoYongMasterConstants:
    # 1. 天体常数
    YEARS_PER_YUAN = 129600      # 1年 (360^2)
    YEARS_PER_HUI  = 10800       # 1月 (129600 / 12)
    YEARS_PER_YUN  = 360         # 1日 (3600/1)
    YEARS_PER_SHI  = 30          # 1时 (3600/12)

    # 2. 行星常数
    CE_OFFSET      = 67017       # 行星常数 (N_year = CE + 67017)
    KAIWU_YEAR     = 27000       # 开皇年
    BIWU_YEAR      = 113400      # 比务年
    ACTIVE_SPAN    = 86400       # 活跃期 (8, 1/3)
    CHAOS_SPAN     = 43200       # 混沌期 (4, 1/3)

    # 3. 天体数量
    TI_NUMBER_YANG = 160         # 天体数量 (10 * 16)
    TI_NUMBER_YIN  = 192        # 天体数量 (12 * 16)
    YONG_NUMBER_YANG = 112       # 永恒 (160 永恒)
    YONG_NUMBER_YIN  = 152       # 永恒 (192 永恒)
    CHANGE_MODULUS  = 17024      # 变化模数 (112 * 152)

    # 4. 天体属性
    TI_CE_TOTAL     = 384        # 天体属性 (64 * 6)
    YONG_CE_TOTAL   = 360        # 永恒属性 (384 - 4024)
    TI_YONG_CE      = 270        # 永恒属性 (360 * 3/4)
    PRACTICAL_CE    = 252        # 永恒属性 (270 - 18)
    ORGANISM_BASE   = 256        # 永恒属性 (16*16)
    ONTOLOGY_STATES = 65536      # 永恒属性 (2^16 = 65,536)

    # 5. 永恒属性
    HEX_BURNSIDE_ORBITS = 36     # 永恒属性 (8+28)
    DAYAN_TOTAL      = 50        # 永恒属性 (50)
```

3.

1. **Bitwise & Topology Layer**
- 6-bit

uint8

BurnsideEquivalenceClass

50%

Guard Rails
2. **Spatiotemporal State Machine Layer**
- Integer Arithmetic

N_year ∈ [1, 129600]

CE_OFFSET = 67017
3. **Cryptographic & Feature Reduction Layer**
- "112/152" "17024"

Hash Compression & S-Box

""
4. **Knowledge Graph & Entity Addressing Layer**
- 65,536

16-bit

uint16

Agent

16-bit

Deterministic Primary Key

\$O(1)\$



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