Tong Zhao

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Education

University of Electronic Science and Technology of China (UESTC), Chengdu, China
Yingcai Honors College, Undergraduate student Expected June 2025
Computer Science and Technology (Yingcai Honors Program of UESTC)
GPA: 3.99 /4.00 Average Score: 92.35 /100 Rank: 1 /137 CET6: 567 IELTS: Learning

Research Experience

Institute of Fundamental and Frontier Science, UESTC 11/2022 – Now
Information Fusion and Intelligent Systems Lab

Research Assistant(Google Scholar & ORCID), advised by Prof. Yong Deng(Google Scholar).
Research topic: Uncertainty Measure

- **Explore the dimension of the Random Permutation Set**
  Inspired by the Rényi information dimension, we propose the information dimension of the permutation mass function in Random permutation Set (RPS), and find the information dimension corresponding to the maximum RPS entropy is 2*, which is equivalent to the fractal dimension of Brownian motion and Peano curve.*
- **Explore the linearity in entropy**
  We conduct an in-depth exploration of the linear relationship between Deng entropy and the scale of the frame of discernment (SFOD), and find that the slope is nothing else but the information fractal dimension of mass function. This work shows that entropy can not only increase but also increase in a linear way.

Publications

- **Tong Zhao**, Zhen Li, and Yong Deng."Information fractal dimension of Random Permutation Set." *Chaos, Solitons & Fractals* 174 (2023): 113883. **(Published, JCR 1, IF = 7.8)** Click to view.
- **Tong Zhao**, Zhen Li, and Yong Deng."Linearity in Deng entropy." *Chaos, Solitons & Fractals* 178 (2024): 114388. **(Published, JCR 1, IF = 7.8)** Click to view.

Main Courses Grades

Linear Algebra: 97	Mathematical Analysis: 98	Discrete Mathematics: 95
Computer Networks: 98	Foundation of Programming: 93	Principles of Computer Organization: 94
Artificial Intelligence: 98	Signal and System: 96	Principle and Application of Database: 96

Honors and Awards

Scholarship for Outstanding Students in UESTC	2022, 2023
First Prize in the Yingcai-Huawei Scholarship	2023
Technology Innovation Star of the Year in Yingcai Honors College	2023
First Prize for Best Project in the New Engineering Education Curriculum of UESTC	2023
Excellent Program, College Student Innovation and Entrepreneurship Program in UESTC	2023
Gold Award for Engineering Innovation and Design Course Project Exhibition	2023

Skills

Programming: C language, Matlab, Python, Verilog/VHDL, MySQL
Research software: LaTex, PowerPoint, Excel, Word