Bingbing Feng

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Research Interests

Speech: Speech Recognition, Speech Enhancement

Chaos: Nonlinear Dynamics, Complex Networks Analysis

Publications

1. Chengqing Li (supervisor), **Bingbing Feng**, Shujun Li, Jürgen Kurths, Guanrong Chen, "**Dynamic Analysis of Digital Chaotic Maps via State-Mapping Networks**," <u>IEEE Transactions on Circuits and Systems I: Regular Papers</u>, vol. 66, no. 5, pp. 1–14, 2019 doi Latex Source Files Code 2022 IEEE Guillemin-Cauer Best Paper Award

 Chengqing Li (supervisor), Kai Tan, Bingbing Feng, Jinhu Lü, "The graph structure of the generalized discrete Arnold Cat map,"

<u>IEEE Transactions on Computers</u>, vol. 71, no. 2, pp. 364-377, 2022

<u>doi Latex Source Files ESI Highly Cited Paper</u>

3. Chengqing Li (supervisor), Dongdong Lin, **Bingbing Feng**, Jinhu Lü, Feng Hao, "Cryptanalysis of a Chaotic Image Encryption Algorithm Based on Information Entropy," <u>IEEE Access</u>, vol. 6, pp. 75834–75842, 2018 doi Latex Source Files Code ESI Highly Cited Paper

Patents

1. Lirong Ye (CEO), Bingbing Feng, Danping Luo,

"Door Area Identification Method, Door Area Identification System and Cleaning Robot for Home Environment,"

CN Patent 110,141,164 (2021) PDF

2. Danping Luo, Bingbing Feng,

 $\hbox{``Door Position Identification Method and Mobile Robot,''}$

CN Patent 110,269,550 (2021) PDF

Refereed Journals

IEEE Transactions on Circuits and Systems I: Regular Papers International Journal of Bifurcation and Chaos, World Scientific

Education

M.Sc. in Computer Science and Technology

2015.09 - 2018.06

Xiangtan University, Hunan, China Supervisor: Prof. Chengqing Li

Master's Thesis: Network Analysis of Dynamics of Chaotic Systems in Digital Domain

B.Sc. in Computer Science and Technology

2011.09 - 2015.06

Xiangtan University, Hunan, China

Majors: Linear Algebra (100 out of 100)

Mathematical Analysis (90 out of 100)

Probability and Mathematical Statistics (100 out of 100) Complex Function and Integral Transform (99 out of 100)

Work Experience

• Algorithm Researcher

Silver Star, Shenzhen, China

2018.07 - 2019.07

Worked on VSLAM (Visual Simultaneous Localization and Mapping) for floor mopping robot.

• Speech Recognition Algorithm Researcher

eMeet, Shenzhen, China

2019.11 - 2022.11

Worked on end-to-end ASR (Automatic Speech Recognition), improving AED (Attention-based Encoder-Decoder) model with chunk-wise self-attention and speech enhancement for robust streaming ASR, developing important production-oriented features ranging from ITN (Inverse Text Normalization), Punctuation Restoration, Contextual Biasing and Endpoint Detection.

Awards

• 2022 IEEE Transactions on Circuits and Systems Guillemin-Cauer Best Paper

Skills

- Programming: MATLAB (advanced level), Python (advanced level), C/C++ (advanced level).
- Software: LaTeX, Bash, Git.
- Languages: English (basic level), Chinese (mother tongue), Japanese (basic level).
- Hobbies: Cycling, Reading.