Bingbing Feng

Email: bbingfeng@yeah.net

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**," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 66, no. 5, pp. 1–14, 2019 doi Latex Source Files 2022 IEEE Guillemin-Cauer Best Paper Award
2. Chengqing Li (supervisor), Kai Tan, **Bingbing Feng**, Jinhu Lü, "**The graph structure of the generalized discrete Arnold Cat map**," *IEEE Transactions on Computers*, vol. 71, no. 2, pp. 364-377, 2022 doi Latex Source Files **ESI Highly Cited Paper**
3. Chengqing Li (supervisor), Dongdong Lin, **Bingbing Feng**, Jinhu Lü, Feng Hao, "**Cryptanalysis of a Chaotic Image Encryption Algorithm Based on Information Entropy**," *IEEE Access*, vol. 6, pp. 75834–75842, 2018 doi

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.S. 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**
  Xrobot, 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 – present
  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, IELTS 6.5), Chinese (mother tongue).
- Hobbies: Cycling, Reading.