KEMOU LI

Ph.D. Student, University of Macau

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EDUCATION

University of Macau   **2024 – Present**
Ph.D. in Computer Science   *Macau SAR, China*
  • Supervisor: Prof. Jiantao Zhou

University of Macau   **2021 – 2023**
M.Sc. in Artificial Intelligence Applications (Research Track)   *Macau SAR, China*
  • Supervisor: Prof. Jiantao Zhou
  • Master Thesis: *Regroup Median Loss for Combating Label Noise*

Sun Yat-sen University   **2017 – 2021**
B.Sc. in Mathematics and Applied Mathematics   *Guangdong, China*
  • Supervisor: Prof. Zhiwei Wu
  • Bachelor Thesis: *The Representation of Lie Algebra of G_2-Type and Associated Integrable Functions*

ACADEMIC & INDUSTRY EXPERIENCE

Research Assistant / Intern   **Aug. 2021 – July 2024**
State Key Laboratory of IOTSC, University of Macau   *Macau SAR, China*
  • Provide mathematical foundations and efficient algorithms in trustworthy ML

Data Analyst Intern   **Summer 2019**
IT and Business Support Center, China Telecom Guangdong Branch   *Guangdong, China*
  • Detect abnormal and out-of-distribution data using statistical algorithms

RESEARCH INTERESTS

Trustworthy Machine Learning: Adversarial Training, Label-noise Learning, Out-of-Distribution Generalization

AI Security and Forensics: Backdoor Learning, Membership Inference, Deepfake Detection

PUBLICATIONS

Trustworthy Machine Learning
  • DAT: Improving Adversarial Robustness via Generative Amplitude Mix-up in Frequency Domain.
    Fengpeng Li, **Kemou Li**, Haiwei Wu, Jinyu Tian, Jiantao Zhou.
    In *The 38th Annual Conference on Neural Information Processing Systems (**NeurIPS-24**)*, 2024. **[CCF A]**
  • Regroup Median Loss for Combating Label Noise.
    Fengpeng Li, **Kemou Li**, Jinyu Tian, Jiantao Zhou.
    In *The 38th AAAI Conference on Artificial Intelligence (**AAAI-24**)*, 2024. **[CCF A] [Oral, Top 2.2%]**

AWARDS & HONOURS

Inclusion·The Global Multimedia Deepfake Detection (Image Track).   Aug. 2024
🏆 1st Place (1/706, JTGroup Team). [NEWS]

TEACHING EXPERIENCE

Teaching Assistant
Department of Computer and Information Science, University of Macau
  • [CISC7014] Advanced Topics in Computer Science (Image Processing and Pattern Recognition) (Fall 2024)

PROFESSIONAL SERVICES

Conference Reviewer / Program Committee
  • Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2024)