Hanbing Wang

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EDUCATION

Shandong University - Bachelor of Science in Communication Sep 2019 - Jun 2023

- **IELTS: 7.5**, GPA: 3.7/5.0 | Relevant Courses: **Pattern Recognition, Machine Learning and Deep Learning(95 #1st)**, Advanced Mathematics, Probability Theory, Linear Algebra
- Honors/Awards:

  First Prize Scholarships in Research Innovation and Aesthetic Education Accomplishment(Top 3%)

  Second prize in Mathematical Contest in Modeling of Shandong University.

  Third Prize in National Mathematical Contest in Modeling

  Third Prize in National Undergraduate Electronic Design Contest

  Third Prize in 2021 National English Competition for College Students

RESEARCH EXPERIENCE

- Hold **three patents**.
- **Two papers** were submitted to EI Compendex.
- Submitted a paper - **On the User Behavior Leakage from Recommender System Exposure** (XIN XIN, JIYUAN YANG, HANBING WANG, PENGJIE REN, ZHAOCHUN REN) as **second author** to TOIS (**Minor**), which investigates the problem of **user privacy leakage** in recommender system (sequential recommendation). We point out a **new privacy disclosure risk** in RecSys, and propose an **attack model** as well as a **protection mechanism**.
- Two papers on going
  - One is concerning **multi-behavior recommendation** (WWW2023). We invented a framework which can denoise implicit feedback and transfer knowledge learned under clean data of different behaviors (e.g. page view, add-to-favourite) to assist the learning of each other.
  - The other is focusing on mitigating **fairness/bias** issues in **graph-based recommendations** (SIGIR2023). We are trying to invent an **adaptive debiasing** method through learning **personalized** parameters via **multi-task learning**, **graph augmentation** and **reinforcement learning**.

PROJECT EXPERIENCE

A full stack driverless assistant system based on Huawei Ascend (Embedded system, Edge computing, Computer vision) Jul 2021 - Dec 2021

- Invent a **standalone detection system** which can detect road lane information and show it on a website in **real time**.
- Involve the use of Atlas 200DK, Raspberry Pi, Zynq, and 3D-printing.

A real time image style transfer system (Computer engineering, Computer vision) Aug 2021 - Nov 2021

- Invent a real time **style transfer system** which can transfer the image/video style captured by a camera (e.g. mobile phone's) and display the results on a webpage **in real time**.
- Developed a **computer application** which can achieve style transfer as long as you download our app.

INTERNSHIP EXPERIENCE

Research Assistant - Information Retrieval Lab, Shandong University May 2021 - Present

I contribute to many laboratory projects and responsible for organizing academic seminar for RAs.

MISCELLANEOUS

- **Skills:** Python/C/Java, Springboot/React/Html, PR/PS
- **Languages:** English (IELTS: 7.5), Mandarin Chinese (Native)
- **Interests:** Piano (Gr. 10), Electronic Organ (Gr. 10), Badminton (SDU No.5 Men's Team)