Weiwen LIU

Education

2016–Present **PhD, Computer Science**, *The Chinese University of Hong Kong*, Hong Kong, *GPA – 3.71/4.00*.
Course: pattern recognition, probabilistic models, deep learning, matrix analysis, optimization

2013–2016 **BS, Computer Science**, *South China University of Technology*, Guangzhou, *GPA – 3.87/4.00*.
National Scholarship

Research Work

Personalized Recommendation based on Bandits Algorithms

Title **Exploration in Web Page Recommendation: A Contextual DCM Bandit Approach**

Author Weiwen Liu, Shuai Li, Prof. Shengyu Zhang

Description We proposed a contextual DCM bandits algorithm to generate a list of recommendations, which can automatically balance between exploration and exploitation.

Status Accepted by COCOON 2018

Personalized Recommendation based on Deep Learning Algorithms

Title **Field-aware Probabilistic Embedding Supported Neural Network for CTR Prediction**

Author Weiwen Liu, Jiajin Li, Prof. Shengyu Zhang

Description We proposed a Fieldaware Probabilistic Embedding supported Neural Network (FPENN) for CTR prediction, which has both good effectiveness and generalization ability.

Status Submitted to RecSys 2018

Face liveness Detection

Title **Face Liveness Detection Using a Flash against 2D Spoofing Attack**

Author Prof. Patrick Chan, Weiwen Liu, Danni Chen

Description In this work, we designed a simple and efficient face liveness detection method to improve the security of face recognition systems. The experimental results confirm the accuracy and robustness of our method.

Journal IEEE Transactions on Information Forensics and Security

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Projects

2016–Present	**Personalized Recommendation for Huawei App Store**
Collaborator	Huawei Technologies Company Limited
Responsibility	Algorithm design and implementation
Description	Design Ads recommendation algorithms to balance the accuracy and the diversity.
May, 2018–Aug, 2018	**Fairness in Multi-stakeholder Recommender System**
Collaborator	Prof.Robin Burke, School of Computing, DePaul University
Description	Try to consider fairness problem in personalized recommender systems.

Skills

Programming	Python, Matlab, C++, Java, LaTeX
Language	Chinese, English
Communication	Oral presentation at ICMLC & ICWAPR 2016