YIFANG YIN

Title: Senior Scientist I   Affiliation: Institute for Infocomm Research, A*STAR, 1 Fusionopolis Way, Singapore 138632

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EDUCATION

2011 – 2016	**Doctor of Philosophy**	School of Computing, National University of Singapore, Singapore
2007 – 2011	**Bachelor of Science**	Computer Science and Technology, Northeastern University, China

ADJUNCT FACULTY

Jan. 2022 – Current	**Adjunct faculty**	Department of Computer Science and Engineering, IIIT-Delhi, India

PROJECTS

Enhancing Source-free Domain Adaptive Semantic Segmentation with Transformers and Multi-level Consistency Training, PI, 2024 - Current.

Integration of Convective Weather Forecast and Impact Forecast Solutions Supporting Singapore Air Traffic Operations, Co-PI, 2023 – Current.

Demand Prediction and Trajectory Optimisation in Terminal Manoeuvring Area (TMA), 2021 – Current.

The Grab-NUS AI Lab, technical lead of GeoAI, 2016-2021.

SELECTED PUBLICATIONS

- **Yifang Yin**, Sheng Zhang, Yicheng Zhang, Yi Zhang, Shili Xiang, "Context-aware Aircraft Trajectory Prediction with Diffusion Models". In ITSC 2023.
- **Yifang Yin**, Wenmiao Hu, Zhenguang Liu, Guanfeng Wang, Shili Xiang, Roger Zimmermann, "CrossMatch: Source-Free Domain Adaptive Semantic Segmentation via Cross-Modal Consistency Training". In ICCV 2023.
- Peng Qian, Zhenguang Liu, **Yifang Yin** and Qinming He, "Cross-Modality Mutual Learning for Enhancing Smart Contract Vulnerability Detection on Bytecode". In TheWebConf 2023.
- Yuxuan Liang, Kun Ouyang, Yiwei Wang, Zheyi Pan, **Yifang Yin**, etc, "Mixed-Order Relation-Aware Recurrent Neural Networks for Spatio-Temporal Forecasting", TKDE, early access.
- **Yifang Yin**, Harsh Shrivastava, Ying Zhang, Zhenguang Liu, Rajiv Ratn Shah, Roger Zimmermann, "Enhanced Audio Tagging via Multi- to Single-Modal Teacher-Student Mutual Learning". In AAAI 2021.
- **Yifang Yin**, Ying Zhang, Zhenguang Liu, Yuxuan Liang, Sheng Wang, Rajiv Ratn Shah, Roger Zimmermann, "Learning Multi-context Aware Location Representations from Large-scale Geotagged Images". In ACM MM, 2021.
- **Yifang Yin**, Ying Zhang, Zhenguang Liu, Sheng Wang, Rajiv Ratn Shah, Roger Zimmermann, "GPS2Vec: Pre-trained Semantic Embeddings for Worldwide GPS Coordinates". In IEEE Transactions on Multimedia, 2021.
- Ying Zhang, **Yifang Yin**, Zhenguang Liu, Roger Zimmermann, "A Spatial Regulated Patch-Wise Approach for Cervical Dysplasia Diagnosis". In AAAI 2021.
- Zhenguang Liu, Sihao Hu, **Yifang Yin**, Jianhai Chen, Kevin Chiew, Luming Zhang, Zetian Wu, "Interactive Rare-Category-of-Interest Mining from Large Datasets". In AAAI 2020.
- **Yifang Yin**, Meng-Jiun Chiou, Zhenguang Liu, Harsh Shrivastava, Rajiv Ratn Shah, Roger Zimmermann, "Multi-Level Fusion based Class-aware Attention Model for Weakly Labeled Audio Tagging". In ACM MM 2019.

PROFESSIONAL SERVICE

- **Conference Co-chair**   IEEE BigMM (2019, 2020), MR2AMC (2018, 2019), MIPR (2023)
- **Conference Committee**   CVPR (2024), AAAI (2020-2024), IJCAI (2019, 2021-2024), TheWebConf (2023), ACM MM (2017-2024), ICME (2019-2024), KDD (2022, 2023), PKDD (2023).
- **Journal Reviewer**   IEEE TCSVT, IEEE TKDE, IEEE OJ-COMS, ACM TOMM, OSA Aplied Optics.