Su Lu

Machine Learning · Artificial Intelligence

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Education

Northwestern Polytechnical University   *Xi'an, China*

B.S. in Computer Science and Technology   *Sept. 2014 - Jun. 2018*

- GPA 3.91 / 4.00 (ranked 1 / 183).

Nanjing University   *Nanjing, China*

Ph.D. in Computer Science and Technology   *Sept. 2018 - Jun. 2024*

- Served as student council president of LAMDA group during 2020.

Publication

Revisit the Essence of Distilling Knowledge through Calibration   *ICML'24*

Wen-Shu Fan, Su Lu, Xin-Chun Li, De-Chuan Zhan, Le Gan

- Studied the phenomenon of capacity mismatch in knowledge distillation through model calibration.

Generalized Knowledge Distillation via Relationship Matching   *TPAMI*

Han-Jia Ye, Su Lu, De-Chuan Zhan

- Distilled knowledge from a generalized teacher model which may have a same, overlapped, or totally different label space from student.

Towards Enabling Meta-Learning from Target Models   *NeurIPS'21*

Su Lu, Han-Jia Ye, Le Gan, De-Chuan Zhan

- Studied a special training protocol in meta-learning that utilizes ideal target models to defend biased sampling of query sets.

Tailoring Embedding Function to Heterogeneous Few-Shot Tasks by Global and Local Feature Adaptors   *AAAI'21*

Su Lu, Han-Jia Ye, De-Chuan Zhan

- Applied global and local feature transformations to meta-learned representation for few-shot tasks of different granularities.

Distilling Cross-Task Knowledge via Relationship Matching   *CVPR'20*

Han-Jia Ye, Su Lu, De-Chuan Zhan

- Utilized the comparison ability of a cross-task teacher to assist the training of student models in knowledge distillation and other applications.

Multi-View Anomaly Detection: Neighborhood in Locality Matters   *AAAI'19*

Xiang-Rong Sheng, De-Chuan Zhan, Su Lu, Yuan Jiang

- Discerned both dissension anomalies and unanimous anomalies in multi-view anomaly detection without relying on clustering assumption.

Selective Cross-Task Distillation   *Submitted to TPAMI*

Su Lu, Han-Jia Ye, De-Chuan Zhan

- Studied a new distillation setting where multiple cross-task teachers are available.
- ArXiv: `https://arxiv.org/abs/2204.11526`

Few-Shot Action Recognition with Compromised Metric via Optimal Transport   *Submitted to TIP*

Su Lu, Han-Jia Ye, De-Chuan Zhan

- Tackled few-shot action recognition via optimal transport by simultaneously considering long-term and short-term temporal information.
- ArXiv: `https://arxiv.org/abs/2104.03737`

Project

Some Project

PROJECT LEADER   *Jan. 2021 - Jan. 2022*

- Party A: Science and Technology Commission, Central Military Commission.
- Served as project leader and responsible for both R& D and management.

App Usage Prediction and Preloading

ALGORITHM RESEARCHER AND ENGINEER   *Jan. 2019 - Jul. 2019*

- Party A: Consumer Business Group, HUAWEI Technologies Co.,Ltd.
- This technology has been launched in Harmony OS service of HUAWEI P40.

Experience

Baiont Quant.   *Nanjing, China*

QUANT TRADING INTERN   *Oct. 2022 - Sept. 2024*

- Studied technologies related to quantitative trading.

Department of Strategic Investment, HUAWEI Technologies Co.,Ltd.   *Shenzhen, China*

TECHNICAL INSIGHT INTERN   *Oct. 2019 - Aug. 2020*

- Discerned technical innovation trends in AI and dynamics of cutting-edge technologies.
- Supported to integrate technical resources and construct global roadmap of AI industries.

Honor

SCHOLARSHIP

2021	**Tencent Scholarship**,	*Nanjing, China*
2020	**First-Class Academic Scholarship of Nanjing University**,	*Nanjing, China*
2019	**First-Class Academic Scholarship of Nanjing University**,	*Nanjing, China*
2017	**First-Class Scholarship of Northwestern Polytechnical University**,	*Xi'an, China*
2016	**National Scholarship for Undergraduates**,	*Xi'an, China*
2016	**First-Class Scholarship of Northwestern Polytechnical University**,	*Xi'an, China*
2015	**National Scholarship for Undergraduates**,	*Xi'an, China*
2015	**First-Class Scholarship of Northwestern Polytechnical University**,	*Xi'an, China*

AWARD

2018	**CCF Elite Collegiate Student Award**,	*Hangzhou, China*
2017	**Silver Medal**, ACM-ICPC Asia Regional Contest	*Qingdao, China*
2017	**Silver Medal**, ACM-ICPC Asia Regional Contest	*Urumqi, China*
2017	**Silver Medal**, ACM-ICPC China Invitational Contest	*Xi'an, China*
2017	**Meritorious Winner**, Interdisciplinary Contest in Modeling	*Xi'an, China*
2016	**Silver Medal**, China Collegiate Programming Contest	*Hangzhou, China*
2016	**Bronze Medal**, ACM-ICPC Asia Regional Contest	*Dalian, China*
2016	**Bronze Medal**, ACM-ICPC Asia Regional Contest	*Shenyang, China*