王晋东

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谷歌学术: 被引 2700 次, H-index: 18, 4 篇近 5 年全球高引论文 (2022 年 2 月更新)

工作及研究经历

- **微软亚洲研究院** – 研究员　　　　　　　　　　　　　　　　　　　　　　　北京，中国
  迁移学习算法及其在语音、时间序列和视觉中的应用　　　　　　　　　　　　　*2019.07 - 至今*
- **香港科技大学** – 访问学生　　　　　　　　　　　　　　　　　　　　　　　香港，中国
  迁移学习算法研究. 访问导师：杨强　　　　　　　　　　　　　　　　　*2018.04 - 2018.08*

教育经历

- **中国科学院计算技术研究所**　　　　　　　　　　　　　　　　　　　　　　北京，中国
  工学博士 - 计算机. 导师：陈益强　　　　　　　　　　　　　　　　　*2014.09 - 2019.06*
- **北方工业大学**　　　　　　　　　　　　　　　　　　　　　　　　　　　　北京，中国
  工学学士 - 计算机　　　　　　　　　　　　　　　　　　　　　　　　*2010.09 - 2014.06*

研究兴趣

- **迁移学习**: 预训练-微调，domain adaptation, domain generalization, OOD generalization
- **应用**: 人体行为识别，计算机视觉，时间序列，语音识别等

荣誉奖励及学术服务

- 中国科学院优秀博士论文（计算所 2020 年唯一一篇）
- 国家奖学金；中国科学院院长奖学金；中科院计算所所长特别奖
- IJCAI 2019 联邦学习研讨会最佳应用论文奖
- ICCSE 2018 最佳论文奖
- IJCAI 2019 宣传主席; ICDM 2019 迁移学习 session chair
- 顶级期刊审稿人：IEEE TPAMI,AIJ,TKDE,TIP,AIJ,JASA, 顶级会议 PC member: ICML, NeurIPS, ICLR, CVPR 等

代表出版物

- [**书籍/专著**] 王晋东、陈益强: **迁移学习导论** (杨强、周志华等好评并撰写推荐语)
- [**TASLP'22**] W. Hou, H. Zhu, Y. Wang, J. Wang #, T. Qin, R. Xu, and T. Shinozaki: Exploiting Adapters for Cross-lingual Low-resource Speech Recognition. (迁移学习用于低资源、跨语言语音识别)
- [**IEEE TKDE'22**] Y. Zhang, J. Wang #, Y. Chen, H. Yu, T. Qin: Adaptive Memory Network with Self-supervised Learning for Unsupervised Anomaly Detection.(迁移学习用于多维时间序列异常检测)
- [**IEEE TKDE'21**] Y. Zhang, Y. Chen, J. Wang #, Z. Pan: Unsupervised Deep Anomaly Detection for Multi-Sensor Time-Series Signals.(迁移学习用于多维时间序列异常检测)
- [**ACM TIST'20**] J. Wang, Y. Chen, W. Feng, H. Yu, Q. Yang: Transfer Learning with Dynamic Distribution Adaptation. (迁移学习动态领域自适应算法新框架)
- [**ICSE'22**] Z. Zhang, Y. Li, J. Wang, B. Liu, D. Li, X. Chen, Y. Guo, Y. Liu: ReMoS: Reducing Defect Inheritance in Transfer Learning via Relevant Model Slicing.(安全高效的迁移学习)
- [**NeurIPS'21**] B. Zhang, Y. Wang, W. Hou, H. Wu, J. Wang #, M. Okumura, T. Shinozaki: FlexMatch: Boosting Semi-Supervised Learning with Curriculum Pseudo Labeling.(迁移学习用于低资源半监督学习算法和代码库)
- [**IJCAI'21**] J. Wang, C. Lan, C. Liu, T. Qin: Generalizing to Unseen Domains: A Survey on Domain Generalization.(迁移学习中的 OOD 泛化)
- [**CIKM'21**] Y. Du, J. Wang #, W. Feng, S. Pan, C. Wang: AdaRNN: Adaptive Learning and Forecasting of Time Series.(迁移学习用于多维时间序列 OOD 泛化预测)
- [**ACMMM'18 Oral**] J. Wang, W. Feng, Y. Chen, Han Yu, M. Huang, P. S. Yu: Visual Domain Adaptation with Manifold Embedded Distribution Alignment (**当年所有该会议论文被引第 2 名**，动态流形迁移算法)
- [**ICDM'17**] J. Wang, Y. Chen, S. Hao, W. Feng, Z. Shen: Balanced Distribution Adaptation for Transfer Learning (**当年所有该会议论文被引第 1 名**，平衡迁移学习算法)

代表项目与及其他

- 创建并持续维护 Github 上最有影响力的迁移学习项目: **10K+ 星标**: jindongwang/transferlearning 和 tutorial
- 第一个基于 Pytorch 的统一半监督学习代码库: torchssl/torchssl
- 热心知识分享: 知乎账号拥有 **70K** 粉丝和 **1000W** 阅读量

Jindong Wang

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Google scholar: 2700 citations, H-index: 18, 4 highly-cited papers in recent 5 years (updated on Feb. 2022)

EXPERIENCE

- **Microsoft Research Asia** – Researcher   Beijing, China
  Transfer learning research and application on time series, CV and speech   *Jul. 2019 - Now*
- **Hong Kong University of Science and Technology** – visiting student   Hong Kong, China
  Transfer learning algorithm. Advisor: Qiang Yang   *Apr. 2018 - Aug. 2018*

EDUCATION

- **Institute of Computing Technology, Chinese Academy of Sciences**   Beijing, China
  Doctor of Philosophy - Computer science. Advisor: Yiqiang Chen   *Sep. 2014 - Jun. 2019*
- **North China University of Technology**   Beijing, China
  Bachelor of Engineering - Computer science   *Sep. 2010 - Jun. 2014*

RESEARCH INTEREST

- **Trasnfer learning**: Pre-training, domain adaptation, domain generalization, OOD generalization
- **Application**: Human activity recognition, time series analysis, CV, speech

HONORS, AWARDS, AND SERVICES

- Excellent Doctoral thesis in Chinese Academy of Sciences (Only 1 in ICT, CAS in 2020)
- National scholarship; CAS president award; Special scholarship from ICT director
- Best Application Paper Award, by IJCAI 2019 Federated Learning workshop - Aug., 2019
- Best Paper Award, by ICCSE 2018 - Aug., 2018
- Publicity co-chair, at IJCAI 2019; Transfer learning session chair, at ICDM 2019
- Reviewer of IEEE TPAMI/AIJ/TKDE/TIP/AIJ/JASA, PC member of ICML/NeurIPS/ICLR/CVPR/AAAI etc.

SELECTED PUBLICATIONS

- [**Book**] J. Wang, Y. Chen: **Introduction to Transfer Learning** (Recommended by Qiang Yang and Zhi-Hua Zhou etc.)
- [**TASLP'22**] W. Hou, H. Zhu, Y. Wang, J. Wang #, T. Qin, R. Xu, and T. Shinozaki: Exploiting Adapters for Cross-lingual Low-resource Speech Recognition. (TL for low-resource cross-lingual speech recognition)
- [**IEEE TKDE'22**] Y. Zhang, J. Wang #, Y. Chen, H. Yu, T. Qin: Adaptive Memory Network with Self-supervised Learning for Unsupervised Anomaly Detection. (TL for multivariate time series anomaly detection)
- [**IEEE TKDE'21**] Y. Zhang, Y. Chen, J. Wang #, Z. Pan: Unsupervised Deep Anomaly Detection for Multi-Sensor Time-Series Signals. (TL for multivariate time series anomaly detection)
- [**ACM TIST'20**] J. Wang, Y. Chen, W. Feng, H. Yu, Q. Yang: Transfer Learning with Dynamic Distribution Adaptation. (Dynamic distribution adaptation algorithms for TL)
- [**ICSE'22**] Z. Zhang, Y. Li, J. Wang, B. Liu, D. Li, X. Chen, Y. Guo, Y. Liu: ReMoS: Reducing Defect Inheritance in Transfer Learning via Relevant Model Slicing. (A safe transfer learning framework)
- [**NeurIPS'21**] B. Zhang, Y. Wang, W. Hou, H. Wu, J. Wang #, M. Okumura, T. Shinozaki: FlexMatch: Boosting Semi-Supervised Learning with Curriculum Pseudo Labeling. (Low-resource algorithms and opensource)
- [**IJCAI'21**] J. Wang, et al.: Generalizing to Unseen Domains: A Survey on Domain Generalization. (OOD generalization)
- [**CIKM'21**] Y. Du, J. Wang #, W. Feng, S. Pan, C. Wang: AdaRNN: Adaptive Learning and Forecasting of Time Series. (OOD generalization algorithm for better time series forecasting)
- [**ACMMM'18 Oral**] J. Wang, W. Feng, Y. Chen, Han Yu, M. Huang, P. S. Yu: Visual Domain Adaptation with Manifold Embedded Distribution Alignment (**Citation Rank #2 in all ACMMM'18 papers**, Manifold transfer algorithm)
- [**ICDM'17**] J. Wang, Y. Chen, S. Hao, W. Feng, Z. Shen: Balanced Distribution Adaptation for Transfer Learning (**Citation Rank #1 in all ICDM'17 papers**, Balanced transfer learning algorithm)

IMPACTFUL PROJECTS

- Create the most influential transfer learning github repo: **10K+ stars**: jindongwang/transferlearning and tutorial
- The first unified Pytorch-based semi-supervised learning codebase: torchssl/torchssl
- Knowledge sharing on social network: My Zhihu account has **70K** followers and **1000W** reads