Mo Zhou

CONTACT

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STATUS

Chinese citizen

CURRENT

- Johns Hopkins University — Baltimore, MD, USA 21218
  Electrical and Computer Engineering, Whiting School of Engineering
  Ph.D. Electrical and Electronics Engineering — 08/2021 - Current

INTERESTS

- Machine Learning, Deep Learning and Computer Vision
- Deep Metric Learning and Cross-modal Retrieval
- Adversarial Attack and Defense in Deep Learning
- Linux Operating System Development and Administration

EXPERIENCE

- Wormpex AI Research LLC — Bellevue, WA, USA 98004
  Research Intern (Computer Vision) — 05/2022 - 08/2022
- Xi'an Jiaotong University — Xi'an, Shaanxi, China 710049
  Institute of Artificial Intelligence and Robotics (IAIR)
  Research Assistant (Computer Vision) — 07/2020 - 06/2021

EDUCATION

- Xidian University — Xi'an, Shaanxi, China 710071
  M.S. Pattern Recognition and Intelligent Systems. July, 2020 — 09/2017 - 06/2020
  Thesis: Coherent Visual-Semantic Embedding for Cross-Modal Retrieval
- Xidian University — Xi'an, Shaanxi, China 710126
  B.S. Electromagnetic Field and Wireless Technology. July, 2017 — 09/2013 - 07/2017

PUBLICATIONS

Google Scholar Profile: scholar.google.com/citations?user=BVIO95UAAAAJ
H-Index: 5 Citations: 640 Apr. 12, 2022
ORCiD: https://orcid.org/0000-0003-3813-4875
Publons: https://publons.com/researcher/4930582/mo-zhou
Semantic Scholar: www.semanticscholar.org/author/Mo-Zhou/2109097390

JOURNAL ARTICLES: (0 TPAMI, 1 TMM)

[J01] Le Wang, Mo Zhou, Zhenxing Niu, Qilin Zhang, Nanning Zheng, *"Adaptive Ladder Loss for Learning Coherent Visual-Semantic Embedding,"* IEEE Transactions on Multimedia (TMM), 2021. DOI: 10.1109/TMM.2021.3139210. [IEEE Xplore]

CONFERENCE PAPERS: (3 CVPR, 2 ICCV, 1 ECCV, 1 AAAI)

[C01] Mo Zhou, Vishal M. Patel, *"Enhancing Adversarial Robustness for Deep Metric Learning,"* in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2022. [arXiv] [Github]

[C02] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Yinghui Xu, Nanning Zheng, Gang Hua, *"Practical Order Attack in Deep Ranking,"* in Proc. IEEE International Conf. on Computer Vision (ICCV), 2021. [PDF] [arXiv] [Github]

[C03] Liushuai Shi, Le Wang, Chengjiang Long, Sanping Zhou, Mo Zhou, Zhenxing Niu, Gang Hua, *"SGCN: Sparse Graph Convolution for Pedestrian Trajectory Prediction"*, In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2021. [PDF] [arXiv] [Github]

[C04] Mo Zhou, Zhenxing Niu, Le Wang, Qilin Zhang, Gang Hua, *"Adversarial Ranking Attack and Defense,"* in Proc. European Conf. on Computer Vision (ECCV), 2020. [PDF] [arXiv] [Github]

[C05] Mo Zhou, Zhenxing Niu, Le Wang, Zhanning Gao, Qilin Zhang, Gang Hua, *"Ladder Loss for Coherent Visual-Semantic Embedding,"* in Proc. AAAI Conf. on Artificial Intelligence (AAAI), 2020. [PDF] [arXiv] [Github]

[C06] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua, *"Hierarchical Multimodal LSTM for Dense Visual-Semantic Embedding,"* in Proc. IEEE International Conf. on Computer Vision (ICCV), 2017. [PDF]

[C07] Zhenxing Niu, Mo Zhou, Le Wang, Xinbo Gao, Gang Hua. *"Ordinal Regression with Multiple Output CNN for Age Estimation,"* in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2016. [PDF] [Dataset]

PREPRINT PAPERS:

[X01] Mo Zhou, Vishal M. Patel, *"On Trace of PGD-Like Adversarial Attacks,"* 2022, Under Review. [arXiv]

[X02] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, Gang Hua, *"Adversarial Attack and Defense in Deep Ranking,"* 2021, Under Review. [arXiv] [Github]

PATENTS

[P01] Le Wang, Mo Zhou, Sanping Zhou, Shitao Chen, Jingmin Xin, Nanning Zheng, "A Practical Relative Order Adversarial Attack Method". Chinese Patent Application No. 202110998691.9. (Under Application)

[P02] Zhenxing Niu, Wei Xue, Mo Zhou, Bo Yuan, Xinbo Gao, Gang Hua, "Age estimation method based on multi-output convolution neural network and ordered regression". Chinese Patent No. 201610273524.7.

ACTIVITIES

- Reviewer for International Conferences
  - IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) 2020, 2021, 2022
  - Conf. on Neural Information Processing Systems (NeurIPS) 2022
  - International Conf. on Computer Vision (ICCV) 2021
  - European Conf. on Computer Vision (ECCV) 2020, 2022
  - Int. Conf. Learning Representations (ICLR) 2022
  - AAAI Conf. on Artificial Intelligence (AAAI) 2021, 2022
  - Winter Conf. on Applications of Computer Vision (WACV) 2021, 2022
  - Asian Conf. on Computer vision (ACCV) 2018, 2020
- Reviewer for International Journals
  - IEEE, Trans. on Pattern Analysis and Machine Intelligence (TPAMI) 2021
  - Elsevier, Neurocomputing 2021
  - Springer, Journal of Machine Vision and Application (MVA) 2020, 2021
  - Springer, Complex & Intelligent Systems (CAIS) 2021, 2022
- Volunteer in Non-profit Free Software Communities
  - Official Developer for Debian GNU/Linux 08/2018 – Current
  - Contributor for Gentoo GNU/Linux 06/2019 – 08/2019

HONORS

- One of Outstanding Reviewers for ICCV 2021 — 2021
- Open Source Promotion Plan (OSPP) with Tsinghua University TUNA Association — 2020
  Project: *Integrating Data Science Software (incl. Xgboost, etc.) into Debian*
  (Best Quality Award)
- Google Summer of Code (GSoC) with Debian Project — 2020
  Project: *BLAS/LAPACK Ecosystem Enhancement for Debian*
- Google Summer of Code (GSoC) with Gentoo Foundation — 2019
  Project: *BLAS and LAPACK Runtime Switching*
- Xidian University Secondary School Scholarship.[+] — 2017-2018
- Interdisciplinary Contest in Modeling (ICM) — 2016
  Meritorious Winner. Advisor: Youlong Yang (Xidian University)

AFFLIATION

- Student Member, IEEE — 2021 – 2022

REFERENCES

AVAILABLE UPON REQUEST.