Mo Zhou

CONTACT

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Baltimore, MD 21218

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Github: cdluminate

STATUS

Chinese citizen

CURRENT

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

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

- Institute of Artificial Intelligence and Robotics (IAIR) 07/2020 - 06/2021
  Xi'an Jiaotong University, Xi'an, Shaanxi, P.R. China. 710049
  Research Assistant

EDUCATION

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

PUBLICATIONS

Google Scholar Profile: scholar.google.com/citations?user=BVIO95UAAAAJ
H-Index: 4 Citations: 512 Sept. 20 2021
ORCiD: https://orcid.org/0000-0003-3813-4875
Semantic Scholar: www.semanticscholar.org/author/Mo-Zhou/2109097390

JOURNAL ARTICLES: (0 T-PAMI, ...)

[J01] Mo Zhou, Le Wang, Zhenxing Niu, Qilin Zhang, Nanning Zheng, Gang Hua, *"Adversarial Attack and Defense in Deep Ranking,"* 2021, Under Review.

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

[C01] 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), Montreal, Canada, 11-17 October, 2021. [PDF]

[C02] 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), Long Nashville, TN, June 2021. [PDF]

[C03] Mo Zhou, Zhenxing Niu, Le Wang, Qilin Zhang, Gang Hua, *"Adversarial Ranking Attack and Defense,"* in Proc. European Conf. on Computer Vision (ECCV'2020), Glasgo, Scotland, UK, August 2020. [PDF]

[C04] Mo Zhou, Zhenxing Niu, Le Wang, Zhanning Gao, Qilin Zhang, Gang Hua, *"Ladder Loss for Coherent Visual-Semantic Embedding,"* in Proc. The Thirty-Fourth AAAI Conf. on Artificial Intelligence (AAAI'2020), New York City, NY, February 2020. [PDF]

[C05] 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), Venice, Italy, October 2017. [PDF]

[C06] 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), Las Vegas, NV, June, 2016. [PDF]

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
  - International Conf. on Computer Vision (ICCV) 2021
  - European Conf. on Computer Vision (ECCV) 2020
  - 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, Transactions on Pattern Analysis and Machine Intelligence 2021
  - Elsevier, Neurocomputing 2021
  - Springer, Journal of Machine Vision and Application (MVA) 2020, 2021
  - Springer, Complex & Intelligent Systems (CAIS) 2021
- Volunteer as official Debian GNU/Linux Developer 08/2018 - Current

HONORS

- Selected as one of the Outstanding Reviewers of 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)

SKILLS

- Proficient in Python, PyTorch as well as LaTeX.
  Proof: The code for the ICCV21, ECCV20 and AAAI20 paper is based on them.
- Proficient in Git, Bash and Linux System Administration.
  Proof: The official Debian Developer status.
- Familiar with C/C++ programming languages.
  Proof: Created a simple static-graph deep learning framework.
- Familiar with Caffe and (lua-based) Torch7.
  Proof: The code for the ICCV17 and CVPR16 paper is based on them.
- Interested in Rust programming language.
  Proof: The Python code of ICCV21 paper calls Rust through FFI for performance.

REFERENCES

AVAILABLE UPON REQUEST.