Nikolaos Sarafianos

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Experience

- **Facebook Reality Labs Research**, Research Scientist, Sausalito, CA (06.2019 - Present)
  - Neural rendering, textures and synthetic data for 3D humans
- **Facebook Reality Labs (Oculus Research)**, Research Scientist Intern, Sausalito, CA (05.2018 - 08.2018)
  - Generative models for 3D humans
- **Amazon, Alexa Machine Learning**, Research Scientist Intern, Cambridge, MA (05.2017 - 08.2017)
  - Acoustic event detection

Education

- **Ph.D. in Computer Science**, University of Houston, Houston, TX (09.2014 - 05.2019)
  - Advisor: Prof. Ioannis Kakadiaris
- **Diploma in Electrical and Computer Engineering**, National Technical University of Athens, Greece (09.2008 - 10.2013)
  - 5-year studies equivalent to Master

Publications

1. B. Chaudhuri, N. Sarafianos, L. Shapiro and T. Tung. ''Semi-supervised Synthesis of High-Resolution Editable Textures for 3D Humans,'' CVPR 2021
2. N. Sarafianos, X. Xu, and I.A. Kakadiaris. ''Adversarial Representation Learning for Text-to-Image Matching,'' ICCV 2019
3. N. Sarafianos, X. Xu and I.A. Kakadiaris. ''Deep Imbalanced Attribute Classification using Visual Attention Aggregation,'' ECCV 2018
4. N. Sarafianos, T. Giannakopoulos, C. Nikou and I.A. Kakadiaris. ''Curriculum Learning of Visual Attribute Clusters for Multi-Task Classification,'' Pattern Recognition 2018
5. N. Sarafianos, M. Vrigkas and I.A. Kakadiaris. ''Adaptive SVM+: Learning with Privileged Information for Domain Adaptation,'' ICCV Workshops 2017
6. N. Sarafianos, T. Giannakopoulos, C. Nikou and I.A. Kakadiaris. ''Curriculum Learning for Multi-Task Classification of Visual Attributes,'' ICCV Workshops 2017
7. N. Sarafianos, B. Boteanu, B. Ionescu and I.A. Kakadiaris. ''3D Human Pose Estimation: A Review of the Literature and Analysis of Covariates,'' CVIU 2016
8. N. Sarafianos, C. Nikou, and I.A. Kakadiaris. ''Predicting Privileged Information for Height Estimation,'' ICPR 2016
9. I.A. Kakadiaris, N. Sarafianos and C. Nikou. ''Show me your body: Gender classification from still images,'' ICIP 2016
10. N. Sarafianos, T. Giannakopoulos, and S. Petridis, ''Audio-visual speaker diarization using Fisher linear semi-discriminant analysis,'' Multimedia Tools and Applications 2014

Programming Skills

- Proficient: Python — Fluent: C++, MATLAB, R
- DL frameworks: PyTorch, TensorFlow, MXNet — Tools: Blender, Git

Awards

- Best reviewer for CVPR 2020, ECCV 2020, CVPR 2021 (2020,2021)
- University of Houston natural sciences and mathematics alumni scholarship (05.2018)
- Conference on fairness, accountability, and transparency travel award (02.2018)
- Best poster award at the University of Houston's PhD showcase (04.2017)
- Hellenic professional society of Texas scholarship (12.2016)
- NSF PETRA conference doctoral consortium travel award (07.2015)

Volunteering

- Deep Learning Indaba Mentor (2020-2021)
- Grace Hopper celebration of women in computing (2016, 2018)
- Girls Who Code instructor (09.2016 - 05.2017)
- Houston Food Bank (03.2015)

Professional Service

- Graduate Student Advisory Board, College of Natural Sciences and Mathematics, University of Houston (09.2018 - 05.2019)
- Teaching Assistant, University of Houston (09.2014 - 05.2019)
  - Computer Vision, Computer Architecture, Databases, Automata, Intro to Programming (C++, Java)
- Reviewer
  - Conferences: CVPR, ICCV, ECCV, 3DV, AAAI, ICML, NeurIPS, ICML, ICIP
  - Journals: TPAMI, IJCV, TIP, TCSVT