Nikolaos Sarafianos

Office Address: HBS Building, Room 328, University of Houston
Phone: +1 (832) 951-4530
Email: nikos.sarafianos@gmail.com
Website: nsarafianos.github.io
Google Scholar: scholar/nsarafianos
LinkedIn: linkedin.com/in/nsarafianos

Experience

- **Facebook Reality Labs (Oculus Research)**, Research Scientist Intern, Sausalito, CA (05.2018 - 08.2018)
  - Generative models
- **Amazon, Alexa Machine Learning**, Research Scientist Intern, Cambridge, MA (05.2017 - 08.2017)
  - Multi-task learning
- **University of Houston**, Research Assistant, Houston, TX (09.2014 - Present)
  - Deep imbalanced attribute classification using visual attention [Python, MXNet]
  - Deep visual attribute classification from images using curriculum and multi-task learning [Python, Theano]
  - Learning using privileged information for gender and height estimation [Python]
  - Survey on 3D human pose estimation [Matlab]
- **National Center for Scientific Research Demokritos**, Research Assistant, Athens, Greece (12.2012 - 07.2014)
  - Given a video of people speaking find ''who spoke when'' using audio-visual information [Matlab]

Education

- **Ph.D. in Computer Science**, University of Houston, Houston, TX (09.2014 - **Expected: 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. N. Sarafianos, X. Xu and I.A. Kakadiaris. ''Deep Imbalanced Attribute Classification using Visual Attention Aggregation,'' ECCV 2018
2. N. Sarafianos, T. Giannakopoulos, C. Nikou and I.A. Kakadiaris. ''Curriculum Learning of Visual Attribute Clusters for Multi-Task Classification,'' Pattern Recognition 2018
3. N. Sarafianos, M. Vrigkas and I.A. Kakadiaris. ''Adaptive SVM+: Learning with Privileged Information for Domain Adaptation,'' ICCV Workshops 2017
4. N. Sarafianos, T. Giannakopoulos, C. Nikou and I.A. Kakadiaris. ''Curriculum Learning for Multi-Task Classification of Visual Attributes,'' ICCV Workshops 2017
5. 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
6. N. Sarafianos, C. Nikou, and I.A. Kakadiaris. ''Predicting Privileged Information for Height Estimation,'' ICPR 2016
7. I.A. Kakadiaris, N. Sarafianos and C. Nikou. ''Show me your body: Gender classification from still images,'' ICIP 2016
8. 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, Java, SQL
- Deep Learning frameworks: TensorFlow, MXNet
- Tools: Git, OpenCV

Volunteering

- Grace Hopper celebration of women in computing (2016, 2018)
- Girls Who Code instructor (09.2016 - 05.2017)
- Houston Food Bank (03.2015)

Awards

- University of Houston natural sciences and mathematics alumni scholarship (05.2018)
- Conference on fairness, accountability, and transparency travel award (02.2018)
- Google self-organizing conference on machine learning invitation (11.2017)
- 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)

Professional Service

- Graduate Student Advisory Board, College of Natural Sciences and Mathematics, University of Houston (09.2018 - Present)
- Teaching Assistant, University of Houston (09.2014 - Present)
  - Computer Vision, Computer Architecture, Databases, Automata, Intro to Programming (C++, Java)
- Reviewer
  - Computer Vision and Pattern Recognition Conference (2015 - 2018)
  - Transactions on Image Processing (2018)
  - International Conference on Image Processing (2016, 2018)
  - Automatic Face and Gesture Recognition Conference (2015)
  - International Conference on Biometrics (2015)