Osman Cihan Kilinc

kilinco.github.io

Email : osmancihankilinc@gmail.com

Phone : +1-619-990-4402

Education

- **University of California San Diego** — San Diego, CA, USA
  M.S. in Machine Learning and Data Science; GPA: 3.54 — *Sep 2017 – Jun 2019*
- **Istanbul Technical University** — Istanbul, Turkey
  B.S. in Computer Engineering; GPA: 3.51 — *Sep 2011 – Feb 2016*

Experience

- **UCSD Adaptive Computing and Embedded Systems (ACES) Lab.** — San Diego, CA, USA
  Research Assistant — *Aug 2018 – Jun 2019*
  - Developed a novel fully-decentralized machine learning method that enables peer-to-peer training.
  - Implemented and tested intellectual property protection methods for deep learning models.
- **Softtech** — Istanbul, Turkey
  Software Engineer — *Mar 2017 – Aug 2017*
  - Designed and developed the front-end of a web application where doctors can monitor their patients' health and cardiovascular data in real-time.
  - Tested front-end code in multiple browsers to ensure cross-browser compatibility and quality control.
- **Baykar** — Istanbul, Turkey
  Software Engineer — *Apr 2016 – Feb 2017*
  - Created an automated testing platform for ECG analysis algorithms using C++ and co-authored the documentation of the wearable heart monitor.
  - Decreased CPU-based computation for the display of real-time high frequency signals 20-fold by developing an OpenGL-based 2-D plotting library.
- **Drexel University CONQUER Collaborative** — Philadelphia, PA, USA
  Research Intern — *Jun 2015 – Jul 2015*
  - Created a configurable experiment setup for a research project investigating the relationship between neuroergonomics and flight safety using functional near-infrared spectroscopy, C++, C#, and SimConnectSDK.

Programming Skills

- **Languages:** Python, Matlab, C, C++, PostgreSQL.
- **Frameworks:** PyTorch, Tensorflow, Keras.
- **Proficient:** C#, HTML, JavaScript, CSS, OpenGL, Unity.

Publications

- Lalitha, A., Kilinc, O., Wang, X., Javidi, T. & Koushanfar, F. (2019). Decentralized Bayesian Learning over Graphs. *arXiv preprint arXiv:1905.10466*
- Lalitha, A., Kilinc, O., C., Javidi, T. & Koushanfar, F. (2019). Peer-to-Peer Federated Learning on Graphs. *arXiv preprint arXiv:1901.11173*
- Chen, H., Rouhani, B. D., Fan, X., Kilinc, O. C., & Koushanfar, F. (2018). Performance Comparison of Contemporary DNN Watermarking Techniques. *arXiv preprint arXiv:1811.03713.*

Selected Projects

- **Vegetation Classification using Hyperspectral Images:** Optimized and accelerated a convolutional neural network for vegetation classification on hyperspectral images.
- **Social Effects on Finance:** Using and extending several available libraries, made public sentiment analysis of publicly traded companies on Twitter. Visualized the correlation between stock prices and public sentiment on Twitter.