Nazanin Mehrasa

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EDUCATION

- **Simon Fraser University**, Burnaby, Canada
  Ph.D. in Computing Science, May 2017 - Current
  - Thesis Supervisor : Prof. Greg Mori
- **Simon Fraser University**, Burnaby, Canada
  M.Sc. in Computing Science, Sep. 2015 - April 2017
  - Thesis Supervisor : Prof. Greg Mori
- **Amirkabir University of Technology**, Tehran, Iran
  B.Sc, Computer Engineering, Sep. 2011 - August 2015

EXPERIENCE

- **Research Assistant**
  - Simon Fraser University – Computer Vision — Since Sept. 2015
- **Machine Learning Research Intern**
  - BorealisAI — Sept. 2018 - August 2019
  - Altumview — May. 2017 - August 2017
- **Teaching Assistant**
  - Machine Learning — Fall 2018
  - Web-Based Information Systems — Fall 2015

PUBLICATIONS

- **N. Mehrasa**, A. Abdu Jyothi, T. Durand, J. He, L. Sigal, G. Mori. **A Variational Auto-Encoder Model for Stochastic Point Processes.** CVPR 2019.
- T. Durand, **N. Mehrasa**, G. Mori. **Learning a Deep ConvNet for Multi-label Classification with Partial Labels.** CVPR 2019.
- **N.Mehrasa**, R. Deng, M. Osma Ahmed, B. chang, J. He, T. Durand, M. Brubaker, G. Mori. **Point ProcesS Flows.** Neurips TPP workshop 2019.
- Micael Carvalho, Thibaut Durand, Jiawei He, **Nazanin Mehrasa**, Greg Mori. **Arbitrarily-conditioned Data Imputation.** 2nd Symposium on Advances in Approximate Bayesian Inference (AABI).
- **N. Mehrasa**, Y. Zhong, F. Tung, L. Bornn, G. Mori. **Deep Learning of Player Trajectory Representations for Team Activity Analysis.** In MIT SLOAN Sports Analytics Conference, 2018.
- **N. Mehrasa**, Y. Zhong, F. Tung, L. Bornn, G. Mori. **Learning Person Trajectory Representations for Team Activity Analysis.** arXiv preprint arXiv:1706.00893, 2017.
- M. Khodabandeh, S. Muralidharan, A. Vahdat, **N. Mehrasa**, E. M. Pereira, S. Satoh, and G. Mori. **Unsupervised Learning of Supervoxel Embeddings for Video Segmentation.** IAPR International Conference on Pattern Recognition (ICPR), 2016.

– G. Fatemi, S.M. Kazemi, and **N. Mehrasa**. **Rating and Generating Sudoku Puzzles based on Constraint Satisfaction Problems.** World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering, 2014.

TECHNICAL SKILLS

– **Programming Languages:** Python, Java.

– **Tools/Frameworks:** PyTorch, Keras.

– **Web/DB Technologies:** PHP, CSS, HTML, JavaScript, JQuery, Microsoft SQL Server, MySQL.

COURSE PROJECTS

– **A Crowdsourcing Interface for Object Localization**, Fall 2016
We used crowd power to find objects in images and determine their positions. This is called object localization. We used a face database and asked the workers to detect different parts of faces including eyes, nose, and etc. As a result, we collected these segments and made a new object dataset that could be used later for many projects in Computer Vision and Machine Learning. (PYBOSSA, Python)

– **News Management System** (Bachelor thesis project), Spring 2014
A management system which gets the news from different sources and then cluster them using k-means clustering algorithm. This is implemented as a web page that is refreshed every five minutes and shows the relevant news of each category to the clients. (PHP, Java, MySQL,Html, CSS, ...)

– **Data Mining Cup Project**, Fall 2014
Predicting if a certain purchase is converted into a return by training data-mining algorithms on the provided shopping dataset. (Weka, MATLAB, Java, MySQL)