Maryam Shadloo

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RESEARCH INTERESTS

- Approximation and Online Algorithms, Game Theory
- Machine Learning, Deep Learning
- Continuous/Discrete Optimization
- Computer Vision

EDUCATION

- **2014 - 2020:**
  Ph.D of Computer Science at University of California Merced, Merced, CA, USA
  Advisor: Prof. Sungjin Im
  Thesis: **New Online and Approximate Scheduling Algorithms**
- **2010 - 2012:**
  M.Sc of Artificial Intelligence at Sharif University of Technology, Tehran, Iran.
  Advisor: Prof. Hamid Beigy
  Thesis: **An Active Learning Algorithm for Spam Filtering**
- **2003 - 2007:**
  B.Sc. of Computer Engineering (Software Engineering), Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran.
  Advisor: Prof. Boroujerdi
  Thesis: **Fuzzy Knowledge Representation of Human Personality Types and Implementation of Adaptive Learning System**

TECHNICAL SKILLS

- Programming Languages: **Python, Java, Matlab**
- Machine Learning Frameworks: **Keras, Tensorflow, PyTorch**
- Data Science Tools: **Pandas, Numpy, SciPy, Matplotlib**

PROFESSIONAL DEVELOPMENT

- **Deep Learning Specialization**
  deeplearning.ai, Coursera Specialization, [Certificate] August 2020
  - Structuring Machine Learning Projects, August 2019
  - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, August 2019
  - Neural Networks and Deep Learning, August 2019
  - Convolutional Neural Networks, November 2019
  - Sequence Models, August 2020

PUBLICATIONS

- **M. Shadloo** and S. Im. "Weighted Completion Time Minimization for Unrelated Machines via Iterative Fair Contention Resolution", SODA '20 (Authors are ordered in alphabetical order)
- **M. Shadloo**, S. Im and Z. Zheng. "Online Partial Throughput Maximization for Multidimensional Coflow", INFOCOM 2018 (Authors are ordered in alphabetical order)
- **M. Shadloo**, S. Im, N. Kel, and D. Panigrahi. "Online Load Balancing for Related Machines", STOC 2018 (Authors are ordered in alphabetical order)
- **M. Shadloo** and S. Im. "Brief Announcement: A QPTAS for Non-preemptive Speed-scaling", SPAA16 (Authors are ordered in alphabetical order)
- **M. Shadloo**, S. Im and, H. Oh. "Minimizing the Maximum Flow Time in Batch Scheduling", Operations Research Letters (Authors are ordered in alphabetical order)
- **M. Shadloo**, H. Beigy, S. Haghiri. "Exploiting Structural Information of Data in Active Learning", ICAISC 2014

◇ S. Haghiri, H.R. Rabiee, A. Soltani, A. Hosseini, **M. Shadloo**. "Locality Preserving Discriminative Dictionary Learning", ICIP 2014

RESEARCH EXPERIENCE

◇ **Aug 2014 - 2020:**
Graduate Research Assistant, University of California Merced, Merced, CA, USA
Role: research on the design and analysis of approximation and online algorithms for the combinatorial optimization problems that we can not find optimal solutions for them in efficient time. My research was focused on addressing algorithmic scheduling challenges arising in large datacenters and cloud computing environments.

◇ **Sep 2010 - Dec 2012:**
Graduate Research Assistant, Sharif University of Technology, Tehran, Iran.
Role: Developing a new active learning algorithm that exploits structural information of data using spectral clustering to propose the best subset of data for labeling that gives us the most information about the the decision boundary.

WORK EXPERIENCE

◇ **2007- 2010:**
J2EE Software Developer and Programmer at Data Processing Iran Co. (Ex. IBM branch in Iran), Tehran, Iran.
Project: **Enterprise Java software development for Internet banking and Channel Manager of Refah bank** (https://www.rb24.ir).
As a member of the Architectural council I was exposed to upcoming projects and influenced the methodologies and technological decisions were being made. As a technical specialist, I was also involved in the implementation of these solutions.

Duties and Achievements:

- Consultant in Design, Architecture and Security issues of Refah Project.
- Design and implementation of CAPTCHA and Monitoring System for Refah Project.
- Acquiring skills and knowledge in following areas: object-oriented programming (design patterns), enterprise applications, software architecture, middleware systems and open-source technologies.

TEACHING ASSISTENT

◇ Algorithm Design and Analysis, UC Merced, Spring 2016

◇ Introduction to Theory of Computation, UC Merced, Spring 2015

◇ Statistical Pattern Recognition, Sharif UT, Spring 2014

◇ Machine Learning, Sharif UT, Fall 2013

AWARDS

◇ GHC Student Scholarship 2018

◇ Women in Theory Travel Award 2018

◇ IEEE INFOCOM Travel Award 2018

◇ Bobcat fellowship from UC Merced for the summer of 2015, 2016, 2017 and 2018

◇ Ranked 67 th among more than 4000 Participants in National Entrance Exam of universities for M.Sc. of Artificial Intelligence 2010.

◇ Ranked 541 th among more than 300,000 participants in National Entrance Exam of universities in the country, 2003.

REFERENCES

Available upon request.