Emrah Sariboz

Research Assistant

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Highly motivated, detail-oriented Ph.D. student who has programming and research experience in Machine Learning and Software Development fields. In search of an internship opportunity to apply these skills.

Education

2019-08 - Current

Ph.D.: Computer Science

New Mexico State University - Las Cruces, NM

2017-08 - 2019-05

Master of Science: Computer And Information Sciences

Sam Houston State University - Huntsville, TX

2013-08 - 2017-05

Bachelor of Science: Computer Science

Sam Houston State University - Huntsville, TX

Work History

2019-08 - Current

Research Assistant

New Mexico State University, Las Cruces, NM

Currently working on a Information Centric Networking (ICN) -Enabled Secure Edge Networking project which is funded by Department of Energy. Both design and implementation of the ICN protocols in an efficient and secure manner.

2016-09 - 2019-05

Teaching Assistant

Sam Houston State University, Huntsville, TX

Teaching and working on undergraduate Data Mining, graduate Algorithm Design and Analysis, undergraduate Programming Fundamentals I and II, undergraduate Introduction to Computer classes.

Teaching Java programming to more than 100 students.

Grading papers & program code, holding office hours, restating classes, and lecturing programming lab.

Covering the class in the absence of the Professor.

2018-06 -

Android Developer Intern

2018-08 Im-Park, Ankara, Turkey

Developed an application which is mainly focusing on the open source project called "Google Science Journal".

This application uses phone's sensors to record more than 8 scientific experiment, such as., decibel of the sound from the microphone, ambient light measurement, accelerometers and to investigate moments and etc.

This application will help more 1000 students on their scientific experiment from the world around them.

2016-09 - 2017-01 **Research Assistant**

Sam Houston State University, Huntsville, TX

Acquisition of Browser Artifacts from Android Devices

The main purpose of this article was to evaluate, extract, and present meaningful data stored by the local storage on Android platform via different web browsers.

The five major mobile browsers (Google Chrome, Samsung, Firefox, Opera, and Web Explorer) are investigated in a forensic manner for web storage. Specifically, mostly visited 15 websites are investigated for local storage implementation on Android platform.

Skills

Programming: C++, Java, Python, HTML, CSS, Bootstrap, Pandas, Matplotlib, Scikit-learn, Numpy

Database: SQL, ORACLE

Selected Project

Stochastic and Spherical Co-Clustering

I created two brand new co-clustering algorithms which cluster the row and column of a given data matrix simultaneously to discover the hidden patterns. Traditional clustering algorithms, such as k-means algorithm, clusters the given data matrix either row-wise or column-wise. Thus, it may fail to reveal hidden patterns. For this reason, co-clustering is desirable over one-way clustering. The correctness and efficiency of two algorithms were validated with publicly available data sets.

Publications

[1] SARIBOZ, E., VAROL, C. "Acquisition of Browser Artifacts from Android Devices", International Journal of Cyber-Security and Digital Forensics (IJCSDF), Volume 7, Issue 2, pp. 175-182, June 2018

[2] Spherical Co-Clustering and Its Application – On going