

Semih Balki

CRYPTOGRAPHY · ALGORITHMS · DATA SCIENCE

☎ (+90) 532-571-41-09 | ✉ semihbalki@sabanciuniv.edu | 📷 smhblk04 | 🌐 Semih Balki

Education

Sabanci University

B.S. IN INDUSTRIAL ENGINEERING WITH MINOR MATHEMATICS

GPA: 2.75/4

Tuzla, Istanbul

2014 - 2019

Experience

CS201 Introduction to Computing - Prof. Gulsen Demiroz

LEARNING ASSISTANT

- Held office hours weekly for exams, homeworks or any other questions about the course.

Sabanci University

Sep 2018 - Dec 2018

Prof. Cetin Kaya Koc

RESEARCH ASSISTANT

- Aim to understand deep neural networks.
- Implement neural networks in Python.
- Analyze the performances in different neural networks.

Koc Lab, University of California,

Santa Barbara

July 2018 - Sep 2018

Skills

Programming Python, C/C++, LaTeX

Computer Science Cryptography, Algorithms, Data Science

Publications

Detection of Confirmation and Distinction Biases in Visual Analytics Systems

EUROVIS ON TRUSTWORTHY VISUALIZATION (TRUSTVIS)

- Cognitive bias is a systematic error that introduces drifts and distortions in the human judgment in terms of visual decomposition in the direction of the dominant instance. It has a significant role in decision-making process by means of evaluation of data visualizations.
- This paper elaborates on the experimental depiction of two cognitive bias types, namely Distinction Bias and Confirmation Bias, through the examination of cognate visual experimentations.
- The main goal of this implementation is to indicate the existence of cognitive bias in visual analytics systems through the adjustment of data visualization and crowdsourcing in terms of confirmation and distinction biases.

Portugal

03 June 2019

Projects

Implementing cryptographic primitives for blockchain (github.com/smhblk04/Cryptography)

PROF. ERKAY SAVAS - CS411 CRYPTOGRAPHY COURSE

- Developed software for digital signature.
- Developed software for transaction and implementing proof of work.
- ECDSA Integration and Blockchain generation.
- Implemented in python.

Sabanci University

Dec 2018

UK Car Accidents Analysis from 2005 to 2015 (github.com/smhblk04/Data-Science)

PROF. SELIM BALCISOY - CS210 DATA SCIENCE COURSE

- Applied Hypothesis test to find the relationship between; gender - accident severity and weather conditions - affect casualty.
- Applied linear regression to find relationship between more than one attributes.
- Decision Tree and Random Forest are used as two machine learning technique.
- Implemented in Python.

Sabanci University

May 2018