



Amir Rubin | computer science doctoral candidate

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Biography

Amir Rubin is a doctoral candidate in computer science at Ben-Gurion University of the Negev, where he completed his master degree in 2016. His main research interests include complex network analysis, big-data, application of machine learning techniques, and combinatorial subjects such as De-Bruijn sequences. The focus of Rubin's research is on developing algorithms for community detection, and applying variants of them for solving problems in the domain of cyber defense. For the past three years, Rubin has worked as an applied research intern at Microsoft's Research and Development Center, practicing big-data methodology and developing machine-learning solutions for cyber defense.

Education

Ben-Gurion University
Computer-Science, Phd. Student,
Advisor : Prof. Danny Hendler.

Be'er-Sheva
2016–present

Ben-Gurion University
Computer-Science, MSc, 95.85
Advisor : Prof. Danny Hendler.

Be'er-Sheva
2015–2016

Ben-Gurion University
Computer-Science, BSc, 96.91

Be'er-Sheva
2012–2015

Master thesis

Title: *Community detection algorithms and their applications for malware detection*

Supervisor: Prof. Danny Hendler

Description: Revealing the community structure underlying complex networks is a key problem that is the focus of intense research. Community detection algorithms find many applications in the domain of cyber security. The focus of the research is to design community detection algorithms whose primary objective is to enable high-quality malware detection and to employ them for this purpose in various settings.

Experience

Microsoft R&D

Applied Research Intern.

Hertzlia

2016–present

Microsoft R&D

Software Engineer Intern.

Hertzlia

2013–2016

Publications

Yehonatan Cohen, Danny Hendler, and Amir Rubin. Node-centric detection of overlapping communities in social networks. In *2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2016, San Francisco, CA, USA, August 18-21, 2016*, pages 1384–1385, 2016.

Yehonatan Cohen, Danny Hendler, and Amir Rubin. Node-centric detection of overlapping communities in social networks. In *Advances in Network Science - 13th International Conference and School, NetSci-X 2017, Tel-Aviv, Israel, January 16-18, 2017*, Lecture Notes in Computer Science. Springer, 2017.

Amir Rubin and Gera Weiss. Mapping prefer-opposite to prefer-one de bruijn sequences. *Designs, Codes and Cryptography*, pages 1–9, 12 2016.

Languages

Hebrew: Mother tongue.

English: As mother tongue.

Fun Facts

"Zachary's karate club CLUB"

Member of the club, Netsci-X

2017

Debate

Winner of the "Juniors IV 2016", Israel

2016

References

Academic

- Prof. Danny Hendler
- Dr. Gera Weiss