

Cybersecurity Datasets – Generation and Evaluation

It is an undeniable fact that current information is a pretty significant presence for all companies or organizations. Therefore, protecting its security is crucial and the security models driven by real datasets have become quite important. The operations based on military, government, commercial and civilians are linked to the security and availability of computer systems and networks. So, despite their limited availability, cybersecurity datasets are critical for research. Several efforts have been attempted to broaden cybersecurity research dataset availability, but there has been limited success. Many such datasets are out of date and unreliable to use. Some of these datasets suffer from lack of diversity and volumes, some of them do not cover the variety of attacks and malicious activities, while others anonymized information and payload which cannot reflect the current trends, or they lack feature set and metadata. This talk will focus on the cybersecurity dataset generation and evaluation along with presenting six cybersecurity datasets that have been generated at UNB. Also, I will present the Canadian HoneyNet Chapter and thread hunting technique that we developed at the Canadian Institute for Cybersecurity (CIC).



Dr. Arash Habibi Lashkari is an assistant professor at the Faculty of Computer Science, University of New Brunswick (UNB) and research coordinator of the Canadian Institute for Cybersecurity (CIC). He has more than 22 years of academic and industry experience developing technology that detects and protects against cyberattacks, malware and the dark web. Dr. Lashkari has been awarded 3 gold medals as well as 12 silver and bronze medals in international computer security competitions around the world. In 2017, he has been selected as the top 150 researchers who will shape the future of Canada. Also, he won the Runner up Cybersecurity Academic Award of the year at ICSIC conference in Canada.

He is the author of 10 books in English and Persian on topics including cryptography, network security, and mobile communication as well as over 80 journals and conference papers concerning various aspects of computer security.

His research focuses on cybersecurity, big data security analysis, Internet Traffic Analysis and the detection of malware and cyber-attacks as well as generating cybersecurity datasets. Currently, he has three research teams includes Co-op, Bachelor, Master and Ph.D. students along with developers who are working on three projects [Network Traffic Analysis](#), [HoneyNet and Threat Hunting](#), and [Malware Analysis](#).

DATE: Friday, November 22nd, 2019

BUILDING: Hazen Hall 232

TIME: 2:30 p.m.

FOR MORE INFORMATION, VISIT:
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