Assignment 1: Review and Critique of Research Paper & Methodology

Unit: Information Sciences Research Methodology PG (6797)

Article Title:

Experimental Evaluation

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My Research Topic

Topic:

Exploring and Mitigating Emerging Cybersecurity Threats in the Evolving Household IoT Devices

Research Questions:

- What are the emerging cybersecurity threats within Household IoT devices?
- What are the key vulnerabilities and attack vectors associated with household IoT devices and how do these vulnerabilities contribute to emerging threats?
- What technologies and strategies can be employed to mitigate the impact of emerging threats in household IoT ecosystems and how effective are these mitigation measures?

Research Objectives:

- To identify and categorize the types of emerging cybersecurity threats targeting household IoT devices.
- To analyze the key vulnerabilities and attack vectors associated with household IoT devices.
- To evaluate the effectiveness of different mitigation strategies in reducing the impact of identified emerging threats.

Keywords:

privacy risks.

How or Why Did You Choose This Paper?

I chose the paper [?]

Title or Abstract of the Paper

The title of the paper clearly describes

Research Problem

The research focuses on evaluating

Theories or Framework

The authors employ a.

Methodology and Methods

The paper [?] has elements of both quantitative and qualitative approaches,

Research Contributions

This paper contributes to both theory and practice in the field of IoT security.

Research Quality

The experimental tests conducted are well-defined and systematically executed, ensuring that the results accurately reflect the security vulnerabilities of the tested IoT devices.

Ethical Issues

The paper does not explicitly detail the ethical considerations or issues addressed in the research paper.

Deficiencies

The paper exhibits multiple deficiencies and gaps.

Bibliography

- [1] Sivanathan, A., Loi, F., Gharakheili, H. H., & Sivaraman, V. (2017). Experimental Evaluation of Cybersecurity Threats to the Smart-Home. In 2017 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS).
- [2] ResearchGate (2017). ResearchGate. Available at: https://www.researchgate.net/publication/325911350_Experimental_evaluation_of_cybersecurity_threats_to_the_smart-home/citations. [Accessed August 2023].
- [3] Cisco Systems (2016). Visual networking Index (VNI). Available at: http://www.cisco.com.