AASTMT-CCIT

CS801  Advanced Topics in Data and Network Security

Spring 2018

Research Project and Report
Report due on (2018)
Presentations on (2018)

Suggested Topics (You are by no means limited to the following)

1. PKI enhancement and alternatives for the Internet
2. PKI and alternatives in Vehicular Ad hoc Networks
3. IEEE 802.11 security
4. Intrusion Detection
5. SDN (Software Defined Networking) Security
6. Secure Electronic Payment Protocols
7. Security and Privacy in Cloud Computing
8. Secure Mobile Payments
9. Security and Privacy in Internet of Things
10. Security and Privacy in Social Networking
11. Security and Privacy in Smart Cities
12. Blockchain paradigm
13. Federated Identity Management
14. Security of Cyber-physical systems

Requirements

1. Report

- A report is required in a survey paper format of current research and state of the art in your topic area, plus an in-depth analysis of a specific subject/subtopic in the field.
- Technically oriented
- Based on at least 3 recent research papers in your topic area (include them in your report) as well as articles, websites, (reference them in your report).
- Minimum of six pages of content (original text, not from the papers)
- 12 point font, single line spacing
- 1 inch margins (top, bottom, left, right)

2. 45 minutes Class presentation
3. A practical implementation/simulation/demo in your selected topic. Guidance will be provided on what is required on your side.

**Topic selection procedure**
- Send me an email with your topic selection (from the suggested topics list, or suggest your own) by Tuesday April 24th 2018.
- Topic selection will be on a first-come first-serve basis.
- You will receive an email acknowledging the approval of the topic.
- Within a couple of days of receiving topic approval, you should send by email the chosen in-focus papers for approval.

**Presentation Schedule**
- To be announced