| Topic | Paper reference | Dataset (if needed) | Objectives | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Industrial Control Systems** | | | | | | | | |
| Attacks and detection 1 | https://dl.acm.org/doi/pdf/10.1145/1966913.1966959 | | Implement attacks (sec. 5.4, 5.5., 5.6) on Tennessee Eastman plant | | | | | |
| Attacking Modbus | link | | Implement a MODBUS simulator (using open source tools and simulators) and testing attack types in Table 4 of the reference paper | | | | | |
| Anomaly detection | Link | | Implement the anomaly detector on one of the two datasets | | | | | |
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| **Internet of Things** | | | | | | | | |
| TOCTOU remote attestation | https://dl.acm.org/doi/pdf/10.1145/3460120.3484532 | | Implement the exchange needed by the attstetion protocol on your machine | | | | | |
| SANA attestation | Link | | Implement the exchange needed by the attstetion protocol on your machine | | | | | |
| SIMPLE | Link | | Implement the SIMPLE protocol | | | | | |
| Authentication | Link | | Implement the authentication protocol | | | | | |
| Attack detection | Link | Simulator | Implement an IoT network, test, and detect attacks | | | | | |