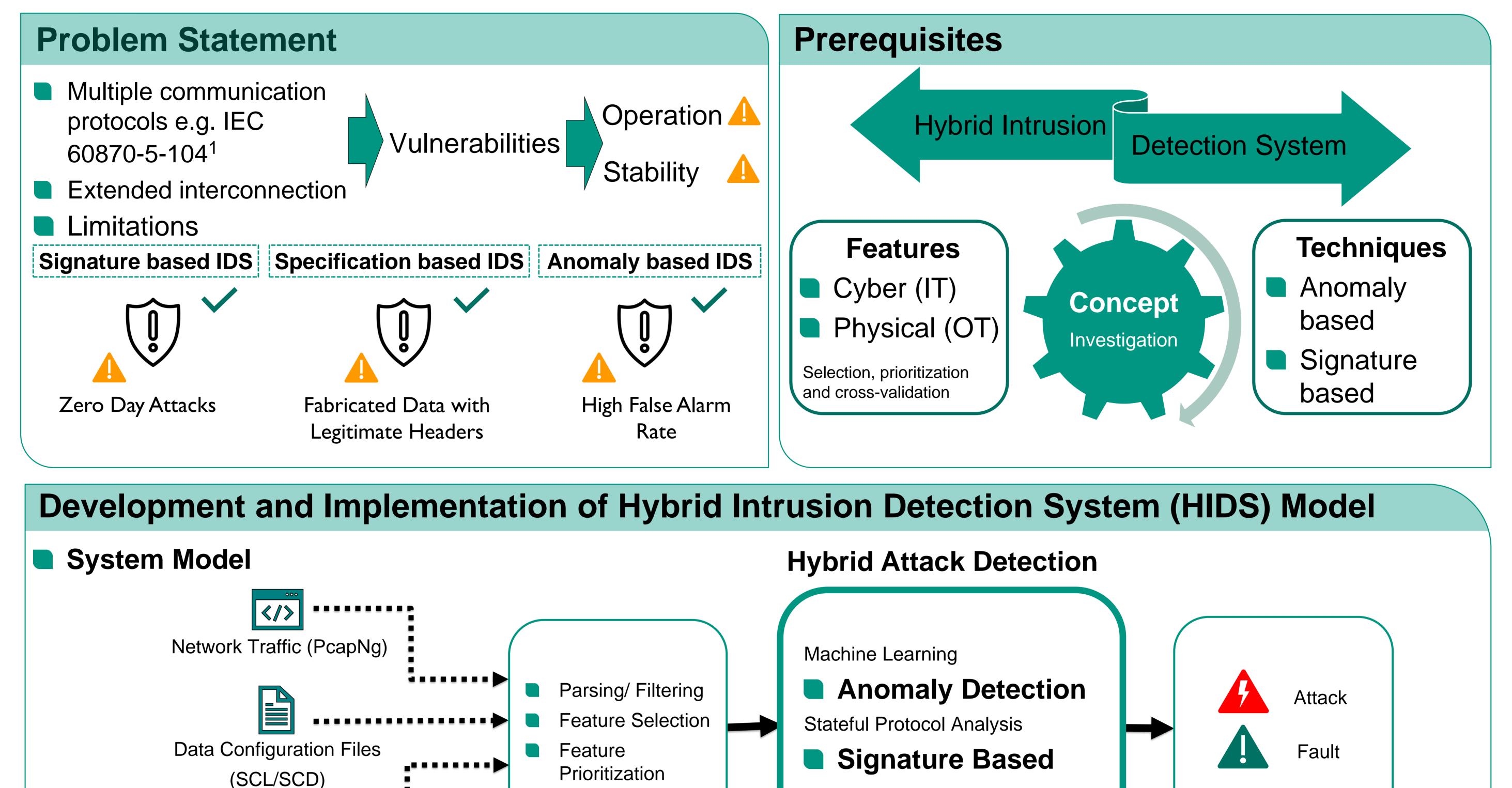


Karlsruhe Institute of Technology

Institute for Automation and Applied Informatics (IAI) Research Area Advanced Automation Technologies (A2T) Research Group Secure Energy Systems (SES)

Hybrid Intrusion Detection System for Smart Grids

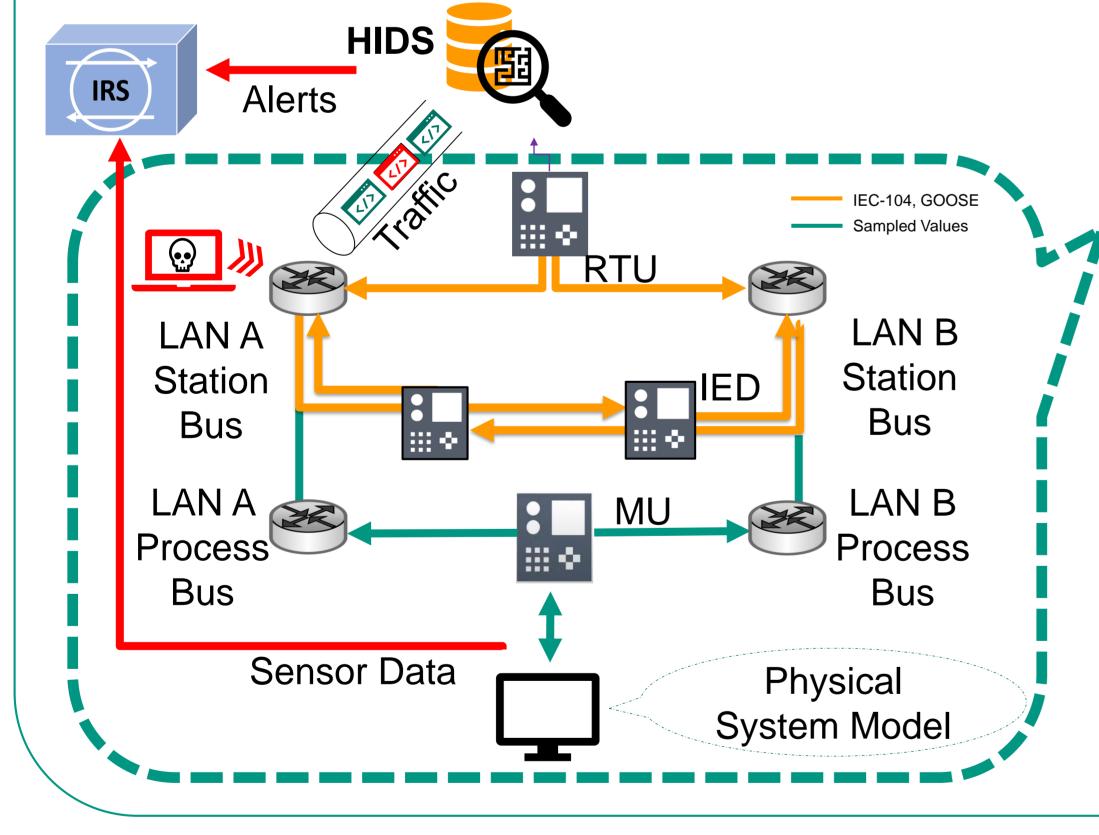
Authors: Aneeqa Mumrez*, Hoomaan Khosravi, Ghada Elbez, Prof. Dr. Veit Hagenmeyer



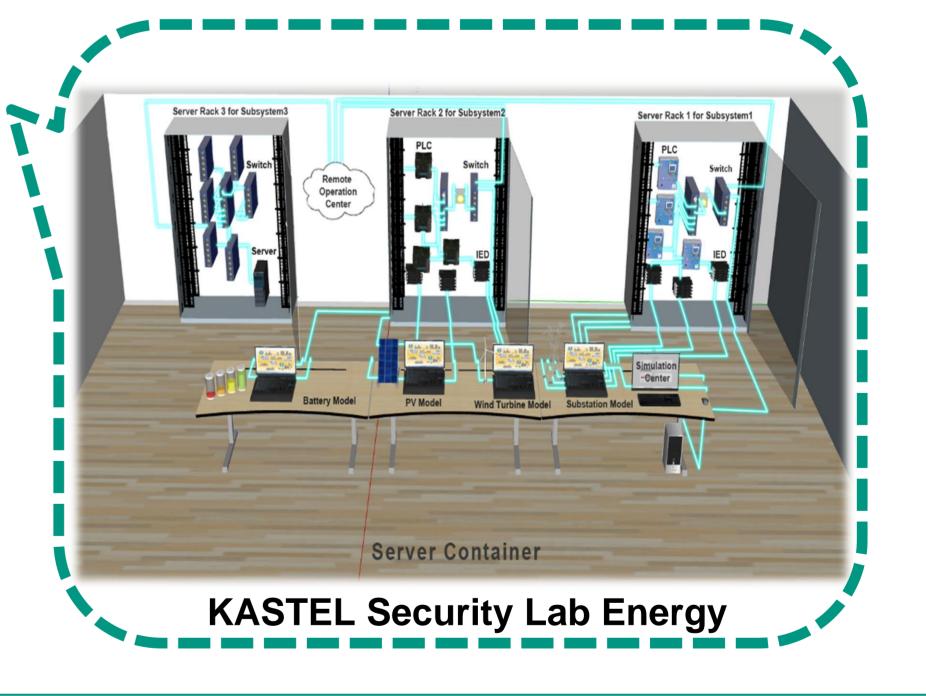
Measurement Data

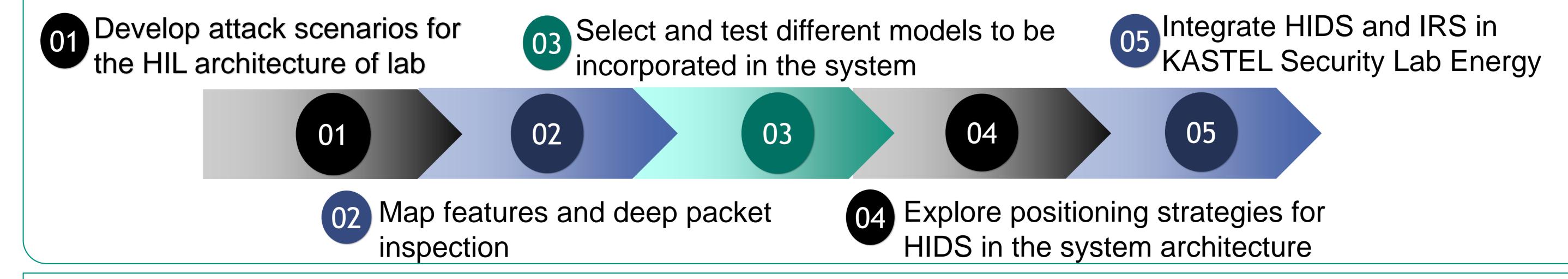
Hybrid IDS incorporates couple of attack detection approaches to improve detection rate, accuracy and efficiency.

Extension of Hybrid Intrusion Detection System with Intrusion Response System in KASTEL Security Lab Energy



Alerts generated by HIDS can be further utilized by Intrusion Response System (IRS) to produce responses nullifying or reducing the alteration done by an attacker.





References:

1. Radoglou-Grammatikis, P., Sarigiannidis, P., Giannoulakis, I., Kafetzakis, E., & Panaousis, E. (2019, July). Attacking iec-60870-5-104 SCADA systems. In 2019 IEEE World Congress on Services (SERVICES) (Vol. 2642, pp. 41-46).

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