OAK RIDGE NATIONAL LABORATORY
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Cyber Physical Attack Detection (CPAD)

Disclosure Number

201603692

Technology Summary

The invention relates to anomaly detection and more specifically to cyber physical attack detection (CPAD). CPAD infers underlying physical relationships between components by analyzing the sensor measurements of a system. It then uses these measurements to detect signs of a non-physically realizable state, which is indicative of an integrity attack on the system. CPAD can be used on any highly-instrumented cyber-physical system to detect integrity attacks and identify the component or components compromised. It has applications to power distribution grids, nuclear and industrial plants, and complex vehicles.

Inventor

FERRAGUT, ERIK M
Computational Sciences & Engineering Div

Licensing Contact

SIMS, DAVID L

UT-Battelle, LLC

Oak Ridge National Laboratory

Rm 124C, Bldg 4500N6196

1 Bethel Valley Road

Oak Ridge, TN 37831

Office Phone: (865) 241-3808

E-Mail: SIMSDL@ORNL.GOV

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