OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Cyber Security Econometrics System (CSES) for Assessing/Ranking Threats

Disclosure Number

201002514

Technology Summary

Here, we discuss how CSES is used to rank candidate threats (i.e., semantically enhanced structural anomalies) for the benefit of a human operator assessment: (a) regarding their potential as a significant emergent threat and its consequent impacts, (b) semantics will be used in the threat ranking process, (c) rankings will include justifications based on semantics and (d) supporting drill-down transparency for building confidence. The model values missions and assets of the cyber environment under study for all stakeholders as well as the likelihood of threats materializing. Moreover, by assessing the set of candidate threats and their associated relationships to missions and assets, the extended CSES can determine the impact of a malicious mission against its target (e.g. asset and/or mission disruption).

Inventor

SHELDON, FREDERICK T
Computational Sciences & Engineering Div

Licensing Contact

SIMS, DAVID L
UT-Battelle, LLC
Oak Ridge National Laboratory
Rm 124C, Bldg 4500N, MS: 6196
1 Bethel Valley Road
Oak Ridge, TN 37831

Office Phone: (865) 241-3808
E-mail: SIMSDL@ORNL.GOV

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.