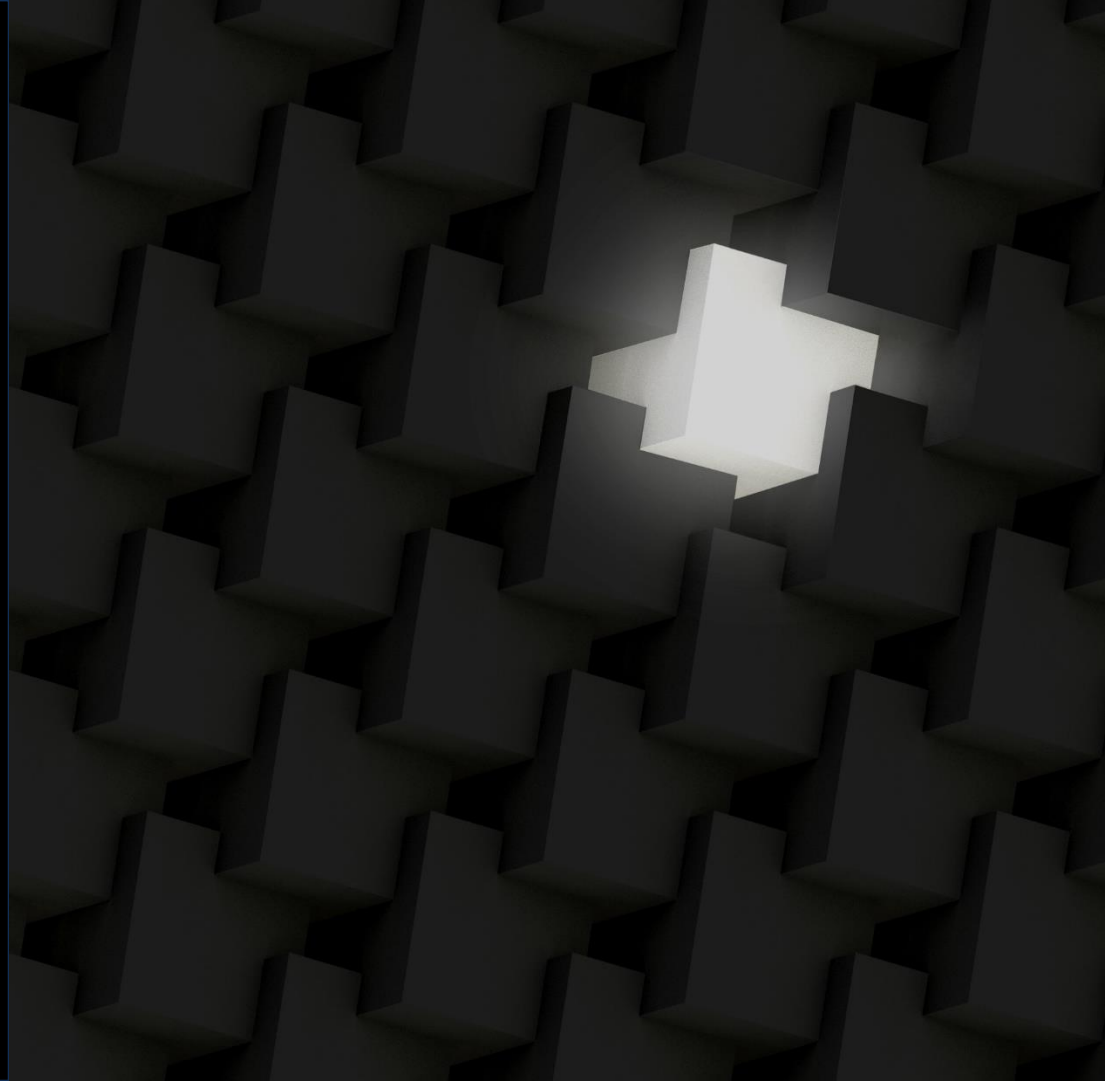


Carnegie Mellon University
Software Engineering Institute

RESEARCH REVIEW 2020

Toward the use of human-machine
teaming and fully autonomous
operations

Jeff Mattson



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Cyber AI

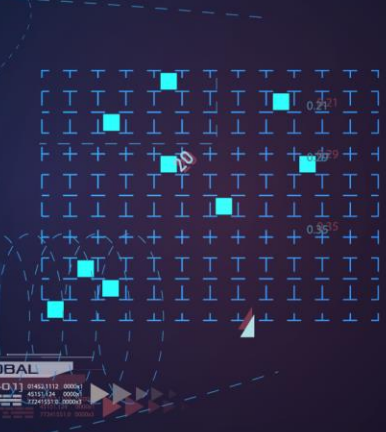
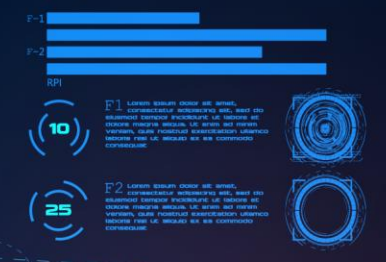


Expertise










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**Formalized Datasets for Autonomous Cyber
Operator Model Development**
Formalized State Space of Cyber Operations
Discovery of Cyber Operator Gaps Requiring AI
Library of Automated Tasks for Cyber Operations
Autonomous Cyber Operator
AI/ML Cyber Test Bed