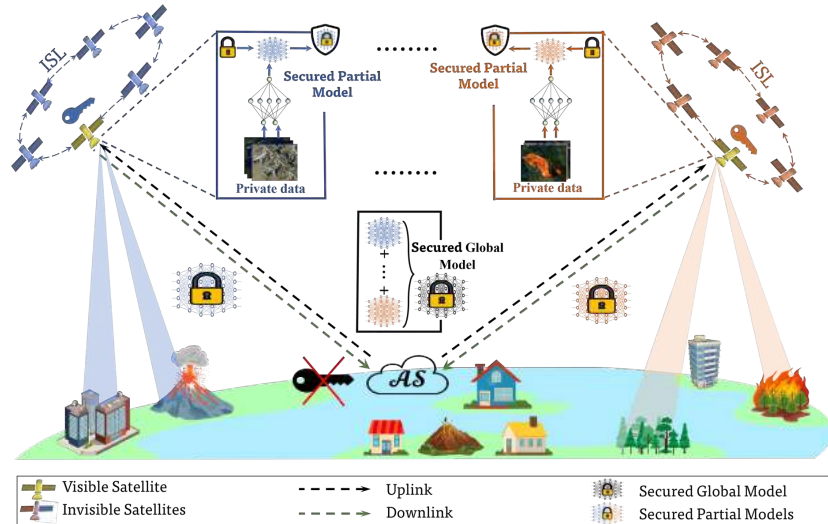# Trustworthy Artificial Intelligence and Internet of Things
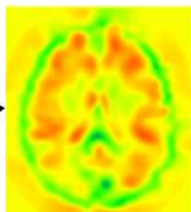
Machine Learning
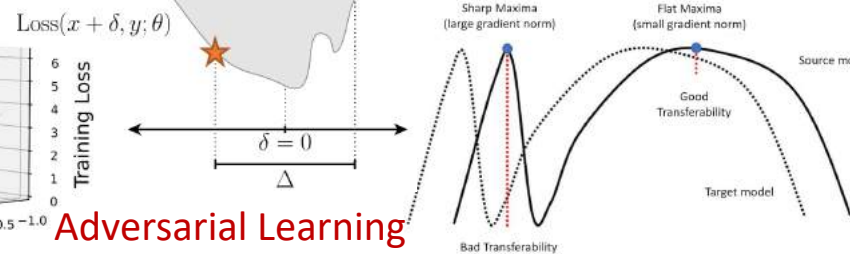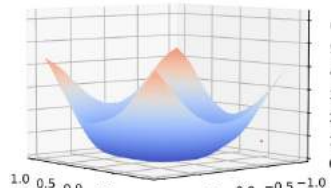
- Adversarial machine learning
- Explainable AI (XAI) for healthcare
- Robust federated learning

Cybersecurity

- IoT security
- Anomaly detection

Internet of Things

- Digital twin
- Edge computing

Secure Federated Learning for Satellites

XAI for Alzheimer's Disease
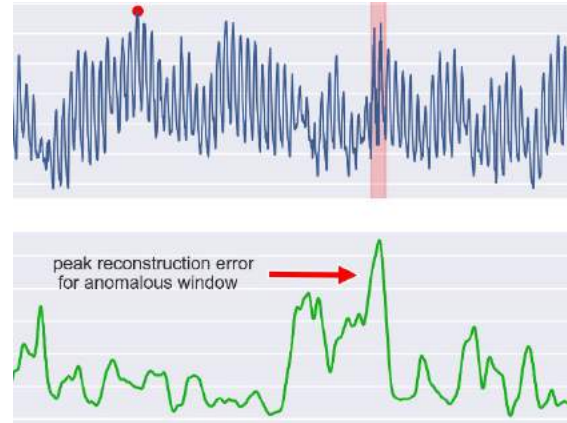
GAN-based Anomaly Detection

peak reconstruction error for anomalous window

Adversarial Learning

$Loss(x + \delta, y; \theta)$

Graph2Graph Transformation Model
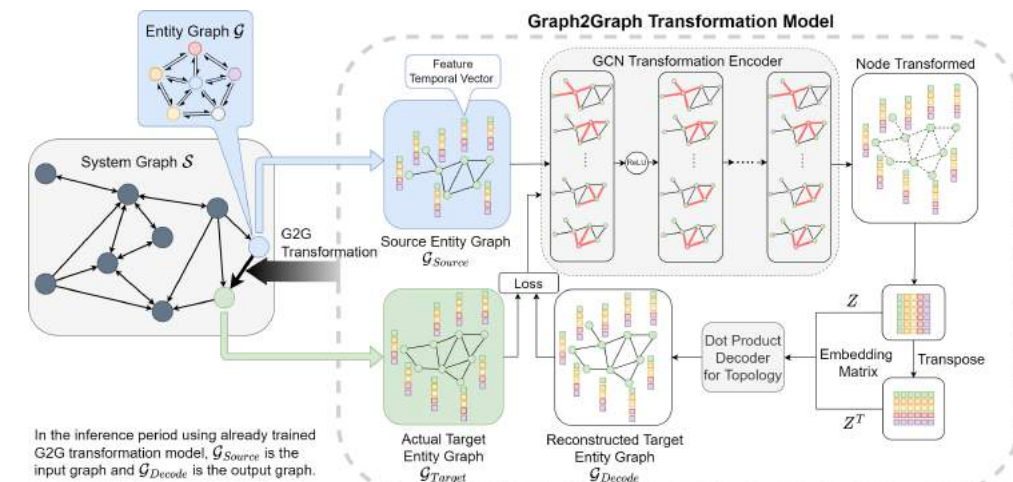
Graph Neural Net-based Digital Twin
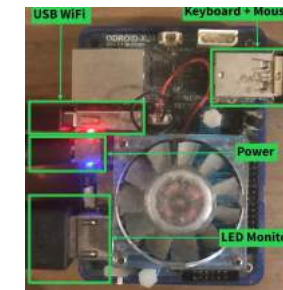
Edge Prototyping & Testbeds

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https://tluocs.github.io
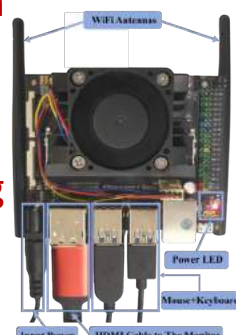
Recognitions

- IEEE Senior Member
- ACUE & ACE Credential in Effective College Instruction
- 2 Best paper awards & 1 Best paper finalist (INFOCOM)
- TPC of Top conferences including INFOCOM and AAAI
- Top 1% Computer Science Reviewers; Outstanding PMC Reviewer
- NSF / ACM faculty or student travel grants (multiple)
- IEEE Spectrum Magazine media coverage