Commissariat à l'Energie Atomique et aux Energies Alternatives – CEA-List

CEA-LIST Data Intelligence Group:
research focused on AI methods & Data Science with operational constraints

Targeted (sub)topics:

SU-DS02-2020: Intelligent security and privacy management
(b): Cyber-threat information sharing and analytics
(c): Advanced security and privacy solutions for end users or software developers
(d): Distributed trust management and digital identity solutions

SU-DS04-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches

SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

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Competencies

Skills we can bring

1. Machine learning and differential privacy: offer machine learning-based services while ensuring privacy of training datasets (e.g. PTClust algorithm for private clustering, published in UAI 2018).

2. Defense against adversarial attacks in artificial intelligence (CEA@CES 2020)

3. Behaviour modelling for anomaly detection (graph-based approaches spatio-temporal point processes)

4. Energy related issues: distributed approaches for electrical interconnected networks

Experience in "security related" EU projects:

- EURITRACK
- C-BORD
- RESPONDRONE
- SAFEWATER
- …

Sécurité PCN - Horizon2020

TIC PCN - Horizon2020

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