



TAC 2024

Workshop on Trustworthy AI and Cyber-Physical Systems

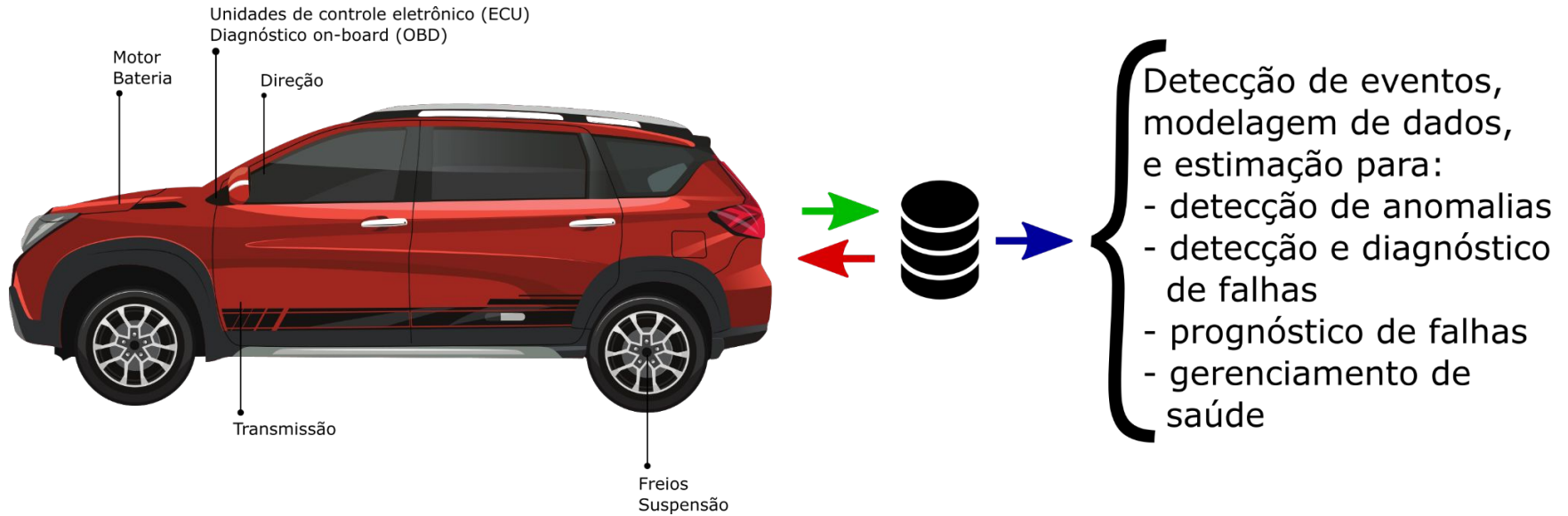
August 12th, 2024
Manaus-AM, Brazil



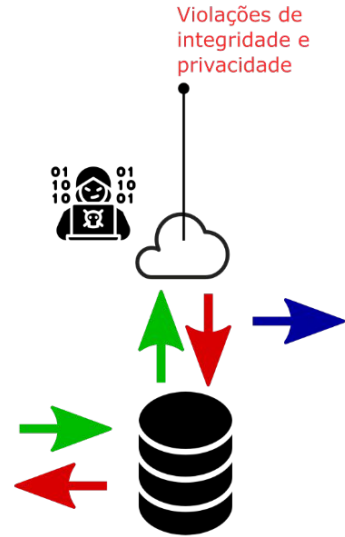
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Trustworthy CPSs



Trustworthy CPSs



Detecção de eventos,
modelagem de dados,
e estimação para

- detecção ciberataques
- mitigação de ataques
- cibersegurança na
integração de carros
às redes veiculares

Reports on cybersecurity

- <https://www.fortinet.com/br/corporate/about-us/newsroom/press-releases/2024/fortinet-annual-skills-gap-report-reveals-growing-connection-between-cyber-security-breaches-and-skills-shortages>
- <https://www.verizon.com/business/resources/reports/dbir/>
- <https://jornal.usp.br/radio-usp/brasil-sofreu-mais-de-100-bilhoes-de-tentativas-de-ataques-ciberneticos-no-ultimo-ano/>

Reports on cybersecurity - highlights

- Increase of 180% of cyberattacks (2022-2023)
- More than 100 billions of attacks in Brazil
- 87% of global leaders were victims of cyber violations in 2024 (83% in 2023)
- 51% of global leaders reported more than US\$ 1 mi in loses due to cyberattacks in 2023
- The world requires 4 mi new professionals in cybersecurity. Only for Brazil it is required 750,000

Surge of cyberattacks in the UK

7.78M

In 2023 UK Businesses Face approximately 7.78 Million Cyber Attacks

50%

50% of UK businesses reported cyber-attacks or security breaches in the past year.

32%

32% of UK Charities Experienced a cyber-attacks or security breaches in the past year.

70%

70% of Medium Businesses reported cyber-attacks or security breaches in the past year.

74%

74% of Large Businesses reported cyber-attacks or security breaches in the past year.

31%

Only 31% of UK Businesses undertook a Cyber Security Risk Assessment in the last year.

£2.93m

A data breach costs UK businesses an average of £2.93 million (\$4 million USD)

£4.6bn

Cybercrime costs the UK up to £4.6 billion (\$6.3 billion USD) annually.

81%

81% of Cyber Attacks and Data Breaches happen to Small to Medium Sized Businesses

14.8/min

Based on the amount of cyber attacks over the past year, there are an estimated 14.8 Cyber Attacks against UK Businesses every Minute.

£479m

In 2020, UK consumers lost £479 million (\$662 million USD) to financial fraud, according to UK Finance

3%

Only 3% of UK Businesses and Charities Adhere to the Cyber Essentials Scheme