Cyber Security And Its Role in Emerging Technologies

State Sponsored Attacks

Cyber Warfare - Cyber Espionage, Cyber Economic Warfare, Cyber Sabotage, Cyber Intelligence etc.

Cyber Information Warfare - Social Media Intelligence. Gathering , Disinformation/Propaganda, Digital Insurgence, Narrative Engineering etc

FLORIDA HACK

Florida drinking water plant hack briefly raised sodium hydroxide levels 100-fold

BY TIM WOGAN | 11 FEBRUARY 2021

A hack targeting a US drinking water facility just outside Tampa, Florida increased the levels of sodium hydroxide more than a hundred-fold. The motive for and agents behind the attack, which was detected before the public was put in any danger, remain unknown, but it demonstrates the dangerous vulnerability of chemical plants and other critical infrastructure to cybersecurity breaches.

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Replication failures cast doubt on some cancer studies

Cyber Breaches Damages Cost

- A 2017 report from Cybersecurity Ventures predicted ransomware damages would cost the world $5 billion in 2017, up from $325 million in 2015 — **a 15X increase in just two years.**

- The damages for 2018 were estimated at $8 billion, and for 2019 the figure rose to **$11.5 billion**.

- The latest forecast is for global ransomware damage costs to reach $20 billion by 2021 — **which is 57X more than it was in 2015.**

- As per reports by FBI, **cyberattacks have increased by 300%**, since the start of the coronavirus.

- In 2020, the average business cost of a **cyberattack was $3.86 million** and it takes over 200 days to detect the breach.

- Cyberattacks projected to hit **$6 trillion in annual loss in 2021** which has doubled since 2015.

- Public companies lose an **estimated 8.6% of their value after a cyber breach**, according to Comparitech

K-ELECTRIC DATA BREACH

K-Electric – https://www.ke.com.pk – Encrypted

Secret data: [redacted]   Password: [_____]   **THE SECRET DATA IS PUBLISHED**

K-Electric (KE) has powered Karachi for over one hundred years. Through a network spanning across 6,500 square kilometres, KE supplies power to all residential, commercial, industrial and agricultural areas that fall under the city's ambit and beyond, serving over 2.5 million customers across Karachi, Dhabeji and Gharo in Sindh, and Uthal, Vinder and Bela in Balochistan.

KE is the only vertically-integrated power utility in Pakistan, which means the organisation manages all three key areas – Generation, Transmission and Distribution – of producing and delivering energy to consumers.

PAKISTAN'S RAILWAY BREACH

FBR'S DATA BREACH

FBR reels under a major 'cyberattack'

Data centre compromised, all websites down since 2am Saturday

Shahbaz Rana | August 15, 2021

ACCESS BEING SOLD ON UNDERGROUND HACKING FORUM

Network access fbr.gov.pk 1500+ systems

intelopsX · Tuesday at 19:15

NO AVATAR

CD

User

Sign up:	26.03.2021
Messages:	12
Reaction:	3

Tuesday at 19:15

Federal Board of Revenue Pakistan
Access to system Connected to network on 1500+ computers.
Will give you access to 2-3 systems with steps to infect all live machines on network

Price 26,000$

If you want us to infect all machines and transfer to you, Price 30,000$ (Your bot should be FUD)

Guarantor accepted. Contact in PM

Complaint

ATTACKS AGAINST HEALTH SECTOR

Maroof International Hospital Hit with Severe Ransomware Attack

Posted 2 years ago by Rizvi Syed

ATTACKS AGAINST FINANCIAL SECTOR

ARTIFICIAL INTELLIGENCE – COST EFFECTIVE AND EFFICIENT

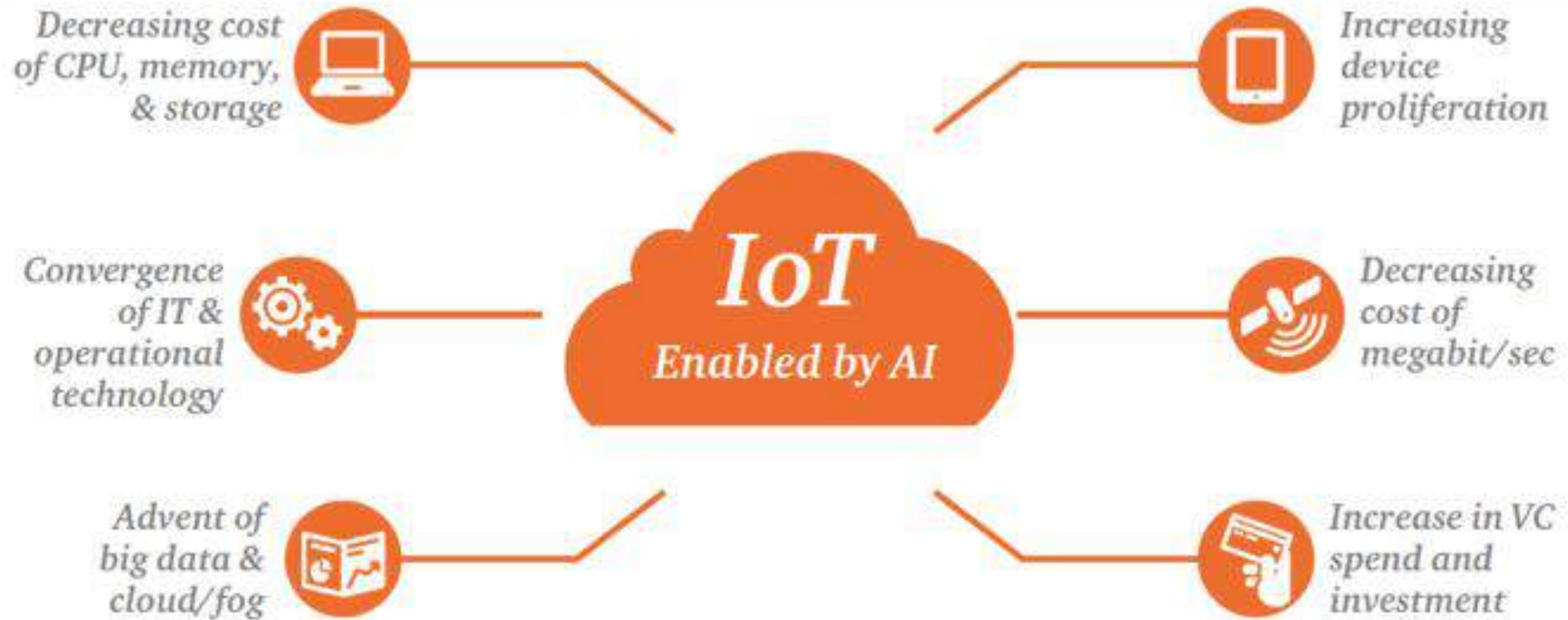# IROBOT

TOM & JERRY

GAN - DEEPFAKE

ARTIFICIAL INTELLIGENCE – IMPACT ON INTERNET OF THINGS (IOT)

Figure 4: Drivers of IoT growth

GAN - DEEPFAKE

MACHINE LEARNING POISONING – EG 1

MACHINE LEARNING POISONING – EG 2

Amazon's sexist hiring algorithm could still be better than a human

Expecting algorithms to perform perfectly might be asking too much of ourselves

By Maude Lavanchy

Amazon decided to shut down its experimental artificial intelligence (AI) recruiting tool after discovering it discriminated against women. The company created the tool to trawl the web and spot potential candidates, rating them from one to five stars. But the algorithm learned to systematically downgrade women's CV's for technical jobs such as software developer.

RECOMMENDATIONS

- DIGITIZATION is necessary, however cyber security should not be undermined in this process.

- Regulations should not be stringent to prevent innovation.

- "Wait and see" approach is not appropriate given the current scenario.

- Multi-stake holder collaboration is necessary.