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## ARTIFICIAL INTELLIGENCE IN CYBER SECURITY

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### Sobre a utilização da IA

“[...] Industries and private sector companies have already adopted AI programs, and as the White House notes, also many government departments utilize the tool. [...]” PAG 4

“[...] AI can detect those little signs that otherwise would have gone undetected and stop the hacking group in their routes. As Varughese noted, every device can be abused. Human hackers always will interrogate the weak spots in every system including AI in the constant cybersecurity chess game. Artificial intelligence is human-controlled and may still, therefore, be vanquished. [...]” PAG 4

“[...] “The use of organized signals during training enables developers to deliver better predictive performance, particularly if the volume of data points is fairly limited,” Tensor Flow engineers thought today in a blog post. [...]” PAG 4

“[...] The Capgemini Research Institute examined the position of information protection besides their study “Reinventing Cyber Protection with AI,” which shows that it is important for companies to set up cybersecurity defenses with AI. [...]” PAG 5

“[...] The application of AI in information defence is generating new challenges to physical protection. Even as it is important to utilize AI technologies to help detect and combat malware threats, cyber attackers may also use AI tools to progressive behaviour attacks. It is partially because access to the advanced AI technologies besides machine learning strategies is cruising as costs of producing and applying these developments decline [22]. [...]” PAG 6

“[...] The most commonly deployed AI methods are certainly specialist programs. An expert program is a technology to seek solutions to problems raised either by a customer or a certain technology in a certain technology area. This may be used specifically in decision-making assistance, for example, with medical care, banking, or virtual worlds [...]” PAG 7