Mohmmadazhar Khalifa
02/09/2022
Mobile Apps II

Week 3 Summaries

Article 1: Bristol scientists develop insect-sized flying robots with flapping wings

Published in the Science Robotics (italicize) journal, Jonathan Rossiter, a Professor of Robotics, and his team at Bristol University were able to develop a more effective flying mechanism in micro flying robots. Unlike its predecessors, the Liquid-applied Zipping Actuator (LAZA) system does not use any gears or motors. This simplified design allows for small and lighter robots that can travel long distances for environmental monitoring, and search and rescue. The LAZA powered wings can travel 18 body lengths per second and provide consistent flapping of over one million cycles. This advancement serves to become fundamental for a variety of autonomous flying robots.

Article 2: European oil facilities hit by cyber-attacks

Several oil transport and storage combine in Europe were hit by cyberattacks recently, directly affecting the transportation rate at the port supply chains around the world. SEA-Tank in Belgian, Evos in Netherlands, and Oil tanking Deutschland GmbH & Co. KG in Germany were all hacked in the same period, although there has been no links that the attacks were related. According to a Threat Analyst, the three attacks may have taken place due to malware gaining access to emails and contact lists, which may include shared connection between companies, spamming the emails with malicious links. Another proposed explanation is the similarity of software used for operations by the companies making them susceptible to hackers.

Bibliography

@misc{university_2022, title={Bristol scientists develop insect-sized flying robots with flapping wings}, url={https://www.bristol.ac.uk/news/2022/february/flapping-wing-robots.html}, journal={February: Flapping wing robots | News and features | University of Bristol}, publisher={University of Bristol}, author={University, Bristol}, year={2022}, month={Feb}, abstract = {This article goes over how the development of micro flying robot was possible using the LAZA powered component. It is of interest because we are starting to see the use of technology in insects as well and the evolution of flying robots is becoming more efficient and powerful}}

@misc{tidy_2022, title={European oil facilities hit by cyber-attacks}, url={https://www.bbc.com/news/technology-60250956}, journal={BBC News}, publisher={BBC}, author={Tidy, Joe}, year={2022}, month={Feb}, abstract = {This article talks about cyberattack that hit oil companies in three European countries. It is of interest because it shows that cyber-attacks can be a very powerful thing in today's world where everything is dependent on technology}}