

Multimodal deep learning research on adversarial attack resilience and its application in building real-time IoT camera intrusion detection systems.

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Abstract: This topic focuses on researching multimodal deep learning methods to enhance resilience against adversarial attacks. The objective is to build and deploy a real-time IoT camera intrusion detection system. Through a combination of theoretical research and experimentation, we designed and trained a multimodal deep learning model to improve the system's accuracy and anti-spoofing capability. This result not only contributes to the development of IoT technology but also brings practical value in protecting cybersecurity.

Keywords: Deep learning, Multimodal, XIoT, Intrusion detection, IoT security