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Improved embedded AI application in Defense UAV

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Abstract:

Improved embedded systems uses existing UAV/drone tech hardware with AI, Deep Learning Networks in addition to existing software to run an autonomous or user driven UAV. Here additional hardware is installed to monitor real-time data, compare with available, preloaded, and pre-recorded data for authenticity and reliability to perform tasks. Some additional safety protocols are also included to deal with dangerous and uncertain situations by spoofers, anti-drone systems and attacks by other objects that may occur at the time of flight.

Fog computing techniques with a redundant processor in addition to working and software abilities powered with decisive cross-referencing techniques such as a human or any living being can do to act according to real-life situations can provide independent capability to sustain itself and be free of depending on command center for every action in a hostile environment, that must be performed.

Keywords:

Fog computing, Adversarial AI, Theory of Mind, Drone AI, Out of Box Thinking AI, Self-Aware AI.