Orbital systems Launchers Satellites Transversal competencies



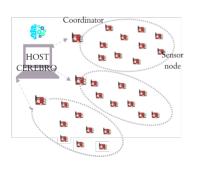
ARKANE is a French cutting-edge innovative company cofounded by two PHDs in Telecommunication in 2020 at the ENSTA Bretagne Business Incubator. ARKANE specializes in using AI-empowered solutions for Telecommunication systems.

ARKANE develops advanced Machine Learning Techniques to solve complex tasks for IoT protocols and Radar and Smart Antenna signal processing.

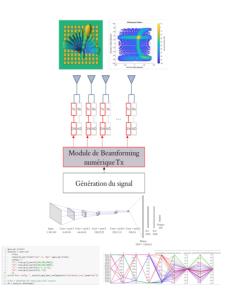
COMPETENCIES & CAPABILITIES

ARKANE designs algorithms for IoT protocols and Radar and Antenna digital processing.

ARKANE Machine Learning Models tackle the routing and scheduling protocols for 6LowPAN Networks, Antenna Digital Beamforming and Radar Target detection, tracking and classification.



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PRODUCTS & SERVICES

- CEREBRO an Al-empowered IoT protocol for fast and reliable data collection in Wireless sensor networks for uses cases such as structural Health Monitoring and Assembly, Integration and Test. CEREBRO is an embedded ML software in a plug and play terminal that scans, builds and manages the data collection in a wireless sensor network.
- Deep Learning algorithms for Antenna Digital Beamforming as an alternative to usual Beamformers that have slow and heavy computation.
- Deep Learning algorithms for target identification, tracking and classification for radar applications working on complex radar data cubes.

MAJOR SPACE PROJECTS & REFERENCES

- CEREBRO a plug and play AI terminal for the SHM and AIT of future launch vehicles. Laureate of the CNES R&D challenge for future space transportation in 2020 & Laureate of the CNES AI for future transportation in 2022
- AITENNA for ML Antenna Beamformers of Telecommunication antennas. Laureate of the CNES AI for future transportation in 2022.
- ESA BIC Alumni & part of the ESA Space Hub.

POINT OF CONTACT

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