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MANAGE THE COGNITIVE CYBERSECURITY IN SPACE : HOW TO UNDERSTAND THE DATA

Abstract

The New Space defines itself by an extension of the actors and the technologies applied in Space.The consequences of New Space mean the increasing of data available for any topics about the Space operations. In regard of the Space industry development through the services delivered to the ground and towards the Deep Space, the operational data needs a method to be correctly collected, organized, and interpreted by the machines and the interface with human. The cybersecurity offers the way to secure the data networks. Nevertheless, the integrity of data shall be checked to secure and protect the brain.Indeed, its construction doesn't come for Space environment, even if it owns an ability to adapt on it.The cognitive cybersecurity provides the toolbox to design a correct representation of data for any kinds of maneuver in Space or from the ground to the Space. As data is the key control, the understanding of cognitive bias from the brain secures the mission process. Moreover, the brain is faced with the machines errors. The training from data model corrects them through the simulation. Despite of that, the brain undergo the effects of the predictive model in which the no-comprehensive and intelligible data can produce both the wrong decision making, the unexpected maneuvers and the observation errors.