IAF EARTH OBSERVATION SYMPOSIUM (B1)
Earth Observation Data Management Systems (4)

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DEEP LEARNING AND AI FOR SHIP DETECTION IN SYNTHETIC APERTURE RADAR - THE AMARI PLATFORM

Abstract

With the advent of multi-satellite constellations of Earth Observation satellites, novel approaches are needed to make timely and effective use of these image products. ADGA is continuing a legacy of excellence in ship detection for Synthetic Aperture RADAR, applying Artificial Intelligence and Deep Learning techniques in the development of a platform for automated detection of vessels in SAR imagery, and to support research and development into new models for object detection in SAR. This presentation will discuss the topic of Artificial Intelligence and Deep Learning with respect to ship detection and how the Amari platform will be used to advance the state of the art in this field.