PROJECT SARAI

The objective of the project is to develop a simulated operating environment IMINT (Imagery Intelligence). This will be done through the formation of a multilevel deep learning network in order to "understand" the SAR images and time series by learning the functionalities without technical supervision and to carry out specific detection, classification and / or recognition tasks by specializing the technologies developed for the identified scenario. The objective of the activity is to support the execution of the tasks planned for Phase 1 of the SARAI project. In detail, the activity includes the following activities:

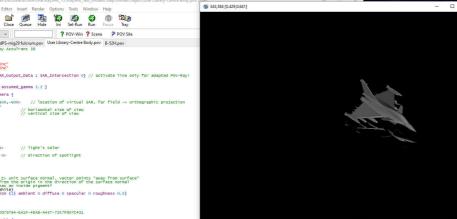
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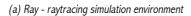
SARAI - SAR signature simulation of targets

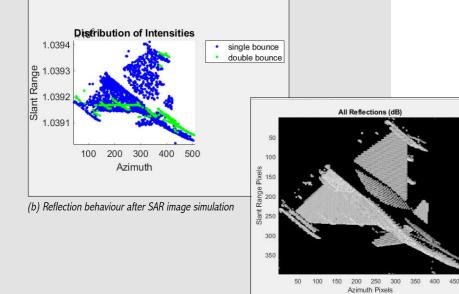
- Task 2: Identification, selection and collection of 3D geometric models of the targets of interest both open source and from commercial suppliers.
- Task 3: Management, adaptation and conversion of 3D geometric models as input from the SAR simulator.
- Task 4: Generation of SAR signatures
- Task 5: Contribution to the project documentation relating to the SAR signature simulator.

Technical Sheet Funding institution:
E-GEOS S.p.a
Project partners
E-GEOS S.p.a
Project duration
February 2021 - February 2022
Involved countries
Italy

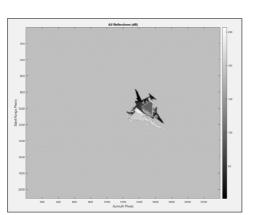
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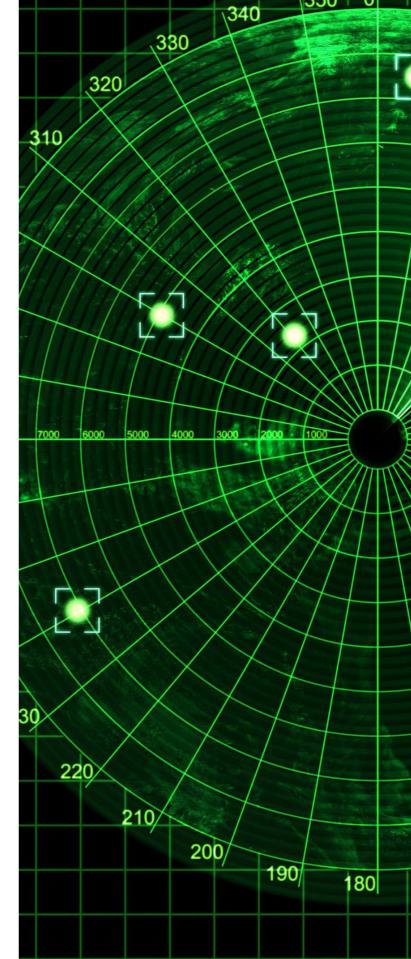




(c) Simulated intensity of SAR image



(d) Simulation of SAR image in presence of clutter



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