Inverse Synthetic Aperture Radar (ISAR) imaging techniques are used to estimate the target spatial image using target backscatterer data.

The technique is utilized for imaging a target based on employing scattering mechanism and Fourier Transform (FT).

This Project aims to develop a GUI to obtain ISAR image of a target by applying several inputs and backscattered data as inputs.

Inverse synthetic aperture radar (ISAR) imaging is typically useful when there is a need to classify, recognize, or identify a moving target of interest [1].

ISAR image highlights two-dimensional (2-D) geometric features of a target, which can provide indications of target’s type, size, and other salient information [2].

This project was completed within the context of ELE401-401 Graduation Project courses in Hacettepe University, Faculty of Engineering, Department of Electrical and Electronics Engineering.

Thanks to Prof. Dr. Özlem ÖZGÜN for her support on this project.

References


Acknowledgements