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A comparison of various machine learning algorithms on ISAR image classification of complex targets with varying levels of Gaussian noise

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This paper investigates the ability to classify complex targets using inverse synthetic aperture radar (ISAR) images with varying noise levels. ISAR is an imaging technique used to generate high resolution two-dimensional images of radar targets. ISAR images contain more information about targets than one-dimensional data, such as high- resolution range (HRR) profiles. ISAR images therefore have useful applications in target classification.