

Tutorial on phenomenology in SAR images

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The unique nature of microwave range-Doppler images will be discussed, including geometric distortions due to range-Doppler imaging such as wavefront curvature effects and layover. Canonical targets for testing will be addressed. Other Synthetic Aperture Radar (SAR) image features such as shadows, multipath, and penetration will be discussed. In addition, examples of SAR image dependence on wavelength, polarization, and atmospheric effects will be illustrated. Lots of images will be shown.