

Free hand scanning and imaging algorithms for microwave and millimeter wave imaging

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Technology description

Wideband synthetic aperture radar (SAR) imaging. A probe transmits a signal through its aperture incident to an object located in a medium of interest remotely from the probe. The probe receives through the aperture a plurality of non-uniformly sampled reflected signals from the object as the probe moves in a measurement plane located a predetermined distance from the object. A processor executes a SAR based reconstruction algorithm to generate an image.

Institution

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