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High angular resolution microwave sensing with large, sparse, random arrays.

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Abstract : This document describes progress toward development of a general capability for high resolution microwave surveillance and imaging using large, sparse, self-cohering arrays. During the last five years, progress has been made in the following areas: understanding of

the unique advantages of large, self-cohering arrays; development of advanced system concepts, including the airborne radio camera; enhanced self-cohering capability and experimental demonstration of that capability; and development of techniques for improving microwave image quality, including handling of the high sidelobes associated with very sparse arrays. A number of other practical issues associated with large self-cohering arrays have also been examined.

Descriptors : *ARRAYS , *RADAR RECEIVERS , *RADAR ANTENNAS , *SEARCH RADAR , *SIDELOBES , TEST AND EVALUATION , AIRBORNE , AUGMENTATION , TEST METHODS , MICROWAVES , MICROWAVE EQUIPMENT , HIGH RESOLUTION , QUALITY , IMAGES , RADIO EQUIPMENT , SPARSE MATRIX , SURVEILLANCE , ANTENNA APERTURES , SPACEBORNE , L BAND

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Radiofrequency Wave Propagation

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