

Session PP

(Focused Session)

Recent Advances in UWB Systems & Technology I

Chairman:

A. Rosen

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Advances in the area of ultra Wideband (UWB) radar research will be covered in this year's focus session. New data will be presented showing the application of impulse radar to airborne target detection and tracking, as well as to imaging of ground targets. NOSC measurements on helicopter supported targets, boat mounted targets, and various land mounted calibration targets will also be covered. Other government supported UWB radar projects will also be addressed in this session. These projects will include systems to identify an incoming round and determine its velocity and trajectory, as well as components for the generation of high power pulse (power switches) in UWB systems.

In the last paper, a new approach to UWB low frequency (10–90 MHz) SAR systems, which is not based on UWB impulse technology, but, rather, adopts a stepped frequency signal shaping scheme, will be discussed.

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1:00 p.m.–2:20 p.m., Thursday, June 4, 1992
Brazos