

# **ABSTRACT**

A method of pulse-Doppler radar signal processing including: receiving time domain radar data which is based on measurements of reflections of burst including a pulse train emitted to a beam coverage area, the burst including a plurality of dwells, each dwell including a group of pulses having a different pulse repetition interval (PRI);  
5 processing the time domain radar data to associate reflection measurements with range for each dwell; combining time domain data for the plurality of dwells, the combining including combining reflection measurements of different dwells for corresponding ranges; transforming, after the combining, the time domain data for the plurality of dwells  
10 to produce frequency domain burst data; evaluating the frequency domain burst data to establish existence of one or more targets within the beam coverage area.

[FIG. 4]