Sensor management for radar applications

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Abstract:

Radar systems are used widely for estimating the position, kinematic properties and other characteristics of both stationary and moving objects (also called targets). Several radar parameters, such as the emitting power, direction of emission and the waveform characteristics, can be selected online for improved performance according to the scenario under consideration. We will demonstrate how sensor management can be used for selecting the optimal radar parameters and therefore, improve the performance of the two main radar functions, meaning target tracking and search for undetected targets. The aforementioned research is being carried out in the MC IMPULSE project https://mcimpulse.isy.liu.se