

# PROPOSAL FOR INCREASING ACCURACY OF COORDINATES DETERMINATION IN THE SYSTEM ON THE BASIS OF 2-D RADAR

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## Abstract

The work analyses the disadvantages of existing monostatic radar and the advantages of multi-static radar systems in detecting a low radar cross-section of the small-sized aircraft. It was proposed to use several existing unidirectional surveillance radars as elements of a small base synchronous MIMO-radar system in order to improve the quality of detection aircrafts. This will increase the probability of detecting small-sized aircraft by exposing them to different angles of spatially spaced radar and using the property of the dependence of aircrafts radar cross-section on the direction of irradiation. In addition, it is possible to improve the accuracy of the estimates of 2D coordinates for air surveillance the MIMO-radar.

## Type of Book of Abstracts

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