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A method of tracking a target (2) moving in an airspace and a target tracking system (10) for performing the method are described. A search sensor (12) searches a search space at a first clock rate ($2\pi/\Delta T_1$) and establishes target information in regard to a track (4) flown through by the target (2). Calculation means (16) extrapolate an expected flight path (6) from the target information established and provide flight path data, which describes the expected flight path (8), to a tracking sensor (14), which covers a tracking space (15), and provides this data at a second clock rate ($2\pi/\Delta T_2$), which is higher than the first clock rate ($2\pi/\Delta T_1$). When the target (2) reaches the tracking space (15), the tracking sensor (14) is aimed at the expected flight path (6) on the basis of the flight path data provided, the target (2) is detected as soon as it is detectable by the tracking sensor (14), and the tracking sensor (14) is tracked on the target autonomously.

(Figure 1)



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