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THE OBJECTIVE OF AUTOMATIC SAFETY CONTROL ON RUNNING UNMANNED AND PILOTTED AIRCRAFT

Approaches are proposed for solving the problem of automatic control of an aircraft take-off safety under conditions of limited takeoff distance. The modeling provided empirical formulas for calculating the safe take-off parameters. The formulas include current measurable travel distance and the running speed. A formula to determine the risk factor of the take-off within the window of an expected successful take-off is obtained. This makes it possible to avoid the human factor impact by generating warning and alarm signals.

Keywords: automatic take-off, take-off safety, minimal risk, aircraft, aircraft safety.

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