Variable	Description
$\mathcal{J}$	search grid in which the model is covering
t	search technology implemented
p_d	probability distribution of the debris
p_n	positional distribution of where plane impacted the water
p_w	probability distribution of plane body on sea floor
β_t	The probability of locating an object assuming the object in in the given search area with a general sea
γ_t	Cost function of
c_t	cost of
α_t	Success rate of locating surface wreckage
ϵ_t	Measure of search effectiveness in each cell for a general search technology
d_j	Whether or not debris is located in cell j (value of either 1 or 0)