

REGULAR PAPER

Analysis of the traffic conflict situation for speed probability distributions

Zs. Öreg* , H.-S. Shin  and A. Tsourdos 

Centre for Autonomous and Cyber-Physical Systems, School of Aerospace, Transportation and Manufacturing, Cranfield University, Cranfield, UK

*Corresponding author. Email: zsombor.oreg@cranfield.ac.uk

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Abstract

The increasingly widespread application of drones and the emergence of urban air mobility leads to a challenging question in airspace modernisation: how to create a safe and scalable air traffic management system that can handle the expected density of operations. Increasing the number of vehicles in a given airspace volume and enabling routine operations are essential for these services to be economically viable. However, a higher density of operations increases risks, poses a great challenge for coordination and necessitates the development of a novel solution for traffic management. This paper contributes to the research towards such a strategy and the field of airspace management by calculating and analysing the conflict probability in an en-route, free-flight scenario for autonomous vehicles. Analytical methods are used to determine the directional dependence of conflict probabilities for exponential and normal prescribed speed probability distributions. The notions of geometric and speed conflict are introduced and distinguished throughout the calculations of the paper. The effect of truncating the set of available flight speeds is also investigated. The sensitivity of the calculated results to speed and heading perturbations is studied within the analytical framework and verified by numerical simulations. Results enable a fresh approach to conflict detection and resolution through distribution shaping and are intended to be used in an integrated, stochastic coordination framework.

Nomenclature

a	parameter of the exponential distribution for the ownship [—]
ACAS	airborne collision avoidance system
ADS-B	automatic dependent surveillance-broadcast
ATC	air traffic control
b	parameter of the exponential distribution for the intruder [—]
CA	collision avoidance
CNS	communication, navigation and surveillance
d	distance to be traversed between sensing range and conflict range ^(m)
DAA	detect and avoid
erfc	complementary error function
GC	geometric conflict
l	lower speed limit [Kn]
MDP	Markov decision process
NMAC	near mid-air collision
p	magnitude of normal distribution variables [—]
PAV	personal aerial vehicle
PDF	probability density function
$\Pr(x)$	probability of x

Analysis Of Traffic Conflict Collision

CH Cherryholmes



Analysis Of Traffic Conflict Collision:

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Analysis Of Traffic Conflict Collision**

In a world inundated with monitors and the cacophony of instant communication, the profound power and psychological resonance of verbal art usually fade in to obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, set within the musical pages of **Analysis Of Traffic Conflict Collision**, a charming function of literary splendor that impulses with raw feelings, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus courses viewers on an emotional odyssey, gently exposing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main themes, dissect its fascinating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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