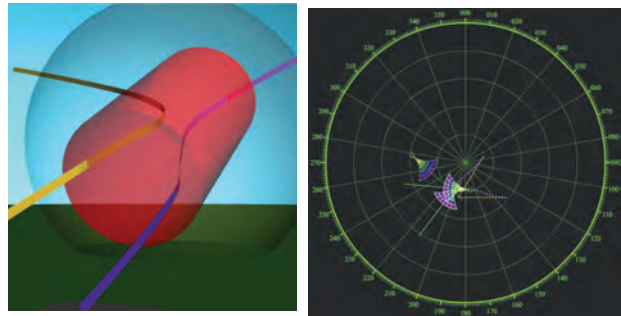


INTELLIGENT TECHNOLOGY FOR DYNAMIC OBJECTS COLLISION AVOIDANCE

Areas of Application

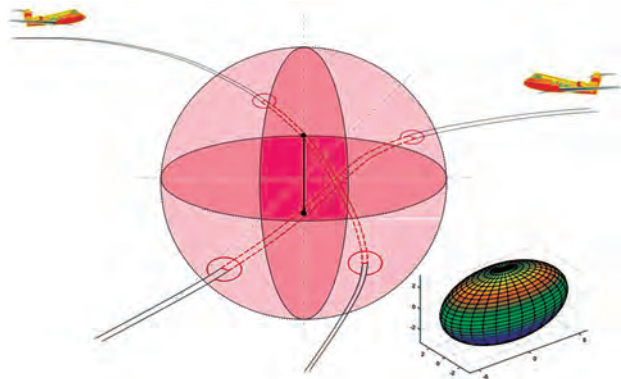
The technology aims at expanding targeted control areas for different types of sea vessels and aircrafts. It enables to automate a process of making timely and effective decisions in real-time conflict situations and under critical operational conditions. The technology is aimed at organizations engaged in development and operation of control systems



Technology application to a conflict situation (a 3D model of aircraft traffic, to the left) and proposed interface of the collision avoidance system (to the right)

Specification

The technology enables to integrate advanced approaches to intelligent control and to work out effective solutions concerning safe collision-avoidance maneuvers at various levels of conflict complexity; integrated information about autonomous or coordinated decisions in intensive traffic areas under natural, legal, and weather restrictions; flexible routes of dynamic objects taking into account emergency situations, economic and power criteria, ecological requirements and comfort of control



Simulation of the conflict situation dynamics for two aircrafts

Advantages

The technology has no counterparts. It enables to control dynamic objects in critical operational modes and emergency situations and to provide conditions for improving reliability, economic efficiency, and comfort taking into consideration normative requirements of ICAO (for aircrafts) and IMO (for sea vessels)

Stage of Development. Suggestions for Commercialization

IRL6, TRL5
Sale of software applications, designer's service, and training of personnel, upon customer's request

IPR Protection

IPR3

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