


[DOWNLOAD](#)


Formal Verification of a Conflict Resolution and Recovery Algorithm

By Jeffrey Maddalon

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.New air traffic management concepts distribute the duty of traffic separation among system participants. As a consequence, these concepts have a greater dependency and rely heavily on on-board software and hardware systems. One example of a new on-board capability in a distributed air traffic management system is air traffic conflict detection and resolution (CDR). Traditional methods for safety assessment such as human-in-the-loop simulations, testing, and flight experiments may not be sufficient for this highly distributed system as the set of possible scenarios is too large to have a reasonable coverage. This paper proposes a new method for the safety assessment of avionics systems that makes use of formal methods to drive the development of critical systems. As a case study of this approach, the mechanical verification of an algorithm for air traffic conflict resolution and recovery called RR3D is presented. The RR3D algorithm uses a geometric optimization technique to provide a choice of resolution and recovery maneuvers. If the aircraft adheres to these maneuvers, they will bring the aircraft out of conflict and the aircraft will follow a...



[READ ONLINE](#)
[1.14 MB]

Reviews

The ideal publication i possibly go through. I was able to comprehended every thing out of this published e publication. I am delighted to explain how this is actually the finest pdf i have got read inside my personal existence and could be he very best ebook for possibly.

-- **Roberto Friesen**

This written book is excellent. It typically is not going to price a lot of. I found out this book from my dad and i encouraged this book to discover.

-- **Darrin Abbott**

Other eBooks



Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original...



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



Variations on an Original Theme Enigma , Op. 36: Study Score

Petrucchi Library Press, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Dedicated to my friends pictured within, Elgar s orchestral showpiece started life as a simple improvisation at the...



Ohio Court Rules 2013, Practice Procedure

Createspace, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. Superseded by 2014 Edition. This title is available, but should be relied upon solely for purposes of historical reference...



Ohio Court Rules 2014, Practice Procedure

Createspace, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Ohio Court Rules 2014, Practice Procedure, contains all of the procedural rules you need for the daily practice of law...



Ohio Court Rules 2015, Practice Procedure

Createspace, United States, 2014. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Ohio Court Rules 2015, Practice Procedure, contains all of the procedural rules you need for the daily practice of law...