ART1 Neural Networks for Air Space Sectors

Abstract

In this paper, it has been shown that how ARTMAP (ART1) neural networks can be used to compute automatically a balanced sectoring of airspace to increase air traffic control capacity in high density airspace areas. Crossing points between two airports may generate conflicts between two aircrafts when their trajectories converge on it at the same time, and this may induce a risk of collision.

References

- Brankica Pesic, Daniel Delahaye. Daily Operational airspace sector grouping. April 27,
1999.

Index Terms

Computer Science

Artificial Intelligence
Keywords
ART1 neural networks unsupervised learning air space sectoring