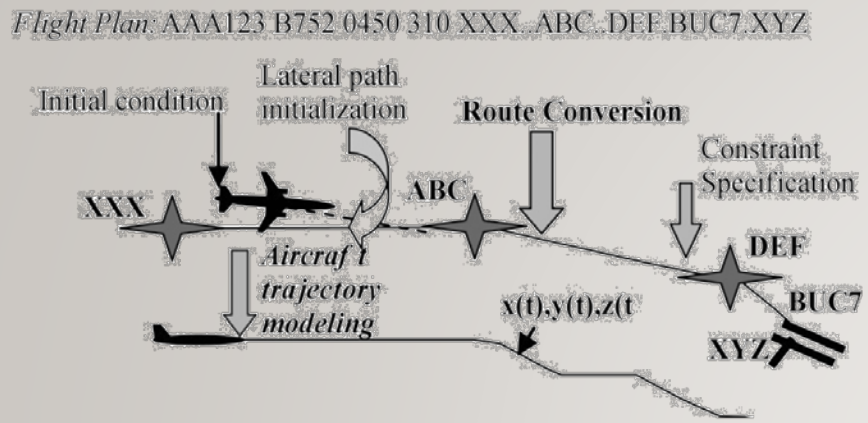

AIRCRAFT TRAJECTORY PREDICTION

- Objectives (Spring 2019 & Fall 2019)
  1. Review current practices
     1. Literature Review
     2. Repeat FAA Study
  2. Big Data & Machine Learning
- Objectives for Spring 2019
  - Review and summarize current practices of trajectory prediction
  - Repeat FAA study using the data provided by FAA.
  - Identify Machine learning approaches
  - Develop a draft of the TRB paper

FAA Study

"Lateral Intent Error's Impact on Aircraft Prediction," Mike M. Paglione, Ibrahim Bayraktutar, Greg McDonald, Jesper Bronsvoort, Air Traffic Control Quarterly, Air Traffic Control Association Institute, Volume 18(1) 29-62, 2010. https://acy.tc.faa.gov/data/_uploaded/Publications/ATCQ2010_LatAdherPaper.pdf

AIRCRAFT TRAJECTORY PREDICTION

- Benefits to students
  1. Understand aircraft trajectory prediction methods.
  2. Gain experience in writing a research paper.
  3. Improve resume by including FAA study.
  4. Possible publication opportunities.
  5. Basic introduction of machine learning methods