



**SECOND SEVILLA WORKSHOP**  
Mixed Integer Nonlinear Programming  
Theory, algorithms and applications

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### **MINLP in Air Traffic Management**

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Air Traffic Management (ATM) represents a domain of emerging, and in general challenging, applications of MINLP. Among these, aircraft conflict avoidance in en-route flights, and conflict-free aircraft trajectory planning, constitute prominent examples. In this talk we discuss modeling issues and solution techniques from MINLP. Numerical results validate the proposed approach.