

1. Record Nr.	UNINA9910137426103321
Autore	Durand Nicolas
Titolo	Metaheuristics for air traffic management // Nicolas Durand [and three others]
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : iSTE : , : Wiley, , 2016 ©2016
ISBN	1-119-26153-8 1-119-26152-X
Descrizione fisica	1 online resource (215 p.)
Collana	Computer Engineering Series. Metaheuristic Set ; ; Volume 2
Disciplina	387.740426
Soggetti	Air traffic control - Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	Air Traffic Management involves many different services such as Airspace Management, Air Traffic Flow Management and Air Traffic Control. Many optimization problems arise from these topics and they generally involve different kinds of variables, constraints, uncertainties. Metaheuristics are often good candidates to solve these problems. The book models various complex Air Traffic Management problems such as airport taxiing, departure slot allocation, en route conflict resolution, airspace and route design. The authors detail the operational context and state of art for each problem. They introduce different approaches using metaheuristics to solve these problems and when possible, compare their performances to existing approaches.