1. Record Nr. UNINA9910157642503321

Autore	Zhang Jianye
Titolo	Time series analysis methods and applications for flight data [[electronic resource] /] / by Jianye Zhang, Peng Zhang
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2017
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 240 p. 161 illus., 35 illus. in color.)
Disciplina	629.1
Soggetti	Aerospace engineering Astronautics Computational intelligence Data mining Artificial intelligence Aerospace Technology and Astronautics Computational Intelligence Data Mining and Knowledge Discovery Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Preprocessing of Flight Data -- Typical Time Series Analysis for Flight Data -- Similarity Search for Flight Data -- Condition Monitoring and Trend Prediction Based on Flight Data -- Design and Implementation Of flight Data Mining System.
Sommario/riassunto	This book focuses on different facets of flight data analysis, including the basic goals, methods, and implementation techniques. As mass flight data possesses the typical characteristics of time series, the time series analysis methods and their application for flight data have been illustrated from several aspects, such as data filtering, data extension, feature optimization, similarity search, trend monitoring, fault diagnosis, and parameter prediction, etc. An intelligent information-processing platform for flight data has been established to assist in aircraft condition monitoring, training evaluation and scientific maintenance. The book will serve as a reference resource for people

working in aviation management and maintenance, as well as researchers and engineers in the fields of data analysis and data mining.