1.

Record Nr.	UNINA9911007357103321
Autore	Liu Hui
Titolo	Data Science in Air Quality Monitoring / / by Hui Liu, Yanfei Li, Zhu Duan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9657-77-6
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (258 pages)
Collana	Engineering Applications of Computational Methods, , 2662-3374 ; ; 23
Altri autori (Persone)	LiYanfei DuanZhu
Disciplina	333.7
Soggetti	Environmental sciences - Mathematics Environmental monitoring Artificial intelligence - Data processing Engineering - Data processing Pollution Mathematical Applications in Environmental Science Environmental Monitoring Data Science Data Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Introduction -- Chapter 2 Data preprocessing in air quality monitoring -- Chapter 3 Data decomposition in air quality monitoring -- Chapter 4 Data identification in air quality monitoring -- Chapter 5 Data preprocessing in air quality monitoring -- Chapter 6 Data forecasting in air quality monitoring -- Chapter 7 Data interpolation in air quality monitoring.
Sommario/riassunto	This book presents a series of state-of-the-art methods for air quality monitoring in various engineering environment by using data science. In the book, the data-driven key techniques of the preprocessing, decomposition, identification, clustering, forecasting and interpolation of the air quality monitoring are explained in details with lots of experimental simulation. The book can provide important reference for the development of data science technologies in engineering air quality

monitoring. The book can be used for students, engineers, scientists and managers in the fields of environmental engineering, atmospheric science, urban climate, civil engineering, traffic and vehicle engineering, etc.