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Autore	Dziwerek, Katarzyna
Titolo	Polish subjects / Katarzyna Dziwirek
Pubbl/distr/stampa	New York ; London : Garland, 1994
ISBN	0-8153-1688-7
Descrizione fisica	XIV, 335 p. ; 24 cm
Collana	Outstanding dissertations in linguistics
Disciplina	491.85
Locazione	FLFBC
Collocazione	491.8 DZI 1
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910881093803321

Autore	Antoniadis Anestis
Titolo	Statistical Learning Tools for Electricity Load Forecasting / / by Anestis Antoniadis, Jairo Cugliari, Matteo Fasiolo, Yannig Goude, Jean-Michel Poggi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2024
ISBN	3-031-60339-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (232 pages)
Collana	Statistics for Industry, Technology, and Engineering, , 2662-5563
Altri autori (Persone)	CugliariJairo FasioloMatteo GoudeYannig PoggiJean-Michel
Disciplina	519
Soggetti	Statistics Machine learning Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences Statistical Learning Machine Learning Energia elèctrica Models matemàtics

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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Part I: A Toolbox of Models -- Additive Modelling of Electricity Demand with mgcv -- Probabilistic GAMs: Beyond Mean Modelling -- Functional Time Series -- Random Forests -- Aggregation of Experts -- Mixed Effects Models for Electricity Load Forecasting -- Part II: Case Studies: Models in Action on Specific Applications -- Disaggregated Forecasting of the Total Consumption -- Aggregation of Multi-Scale Experts -- Short-Term Load Forecasting using Fine-Grained Data -- Functional State Space Models -- Forecasting Daily Peak Demand using GAMs -- Forecasting During the Lockdown Period.
Sommario/riassunto	This monograph explores a set of statistical and machine learning tools that can be effectively utilized for applied data analysis in the context of electricity load forecasting. Drawing on their substantial research and experience with forecasting electricity demand in industrial settings, the authors guide readers through several modern forecasting methods and tools from both industrial and applied perspectives – generalized additive models (GAMs), probabilistic GAMs, functional time series and wavelets, random forests, aggregation of experts, and mixed effects models. A collection of case studies based on sizable high-resolution datasets, together with relevant R packages, then illustrate the implementation of these techniques. Five real datasets at three different levels of aggregation (nation-wide, region-wide, or individual) from four different countries (UK, France, Ireland, and the USA) are utilized to study five problems: short-term point-wise forecasting, selection of relevant variables for prediction, construction of prediction bands, peak demand prediction, and use of individual consumer data. This text is intended for practitioners, researchers, and post-graduate students working on electricity load forecasting; it may also be of interest to applied academics or scientists wanting to learn about cutting-edge forecasting tools for application in other areas. Readers are assumed to be familiar with standard statistical concepts such as random variables, probability density functions, and expected values, and to possess some minimal modeling experience.