1. Record Nr. UNINA9910372751103321

Autore	Jacob Maria
Titolo	Forecasting and Assessing Risk of Individual Electricity Peaks [[electronic resource] /] / by Maria Jacob, Cláudia Neves, Danica Vukadinovi Greetham
Pubbl/distr/stampa	Cham, : Springer Nature, 2020 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-28669-X
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XII, 97 p. 38 illus., 35 illus. in color.)
Collana	SpringerBriefs in Mathematics of Planet Earth, Weather, Climate, Oceans, , 2509-7326
Disciplina	519
Soggetti	Mathematics Statistics Energy efficiency Algorithms Energy systems Mathematics of Planet Earth Statistical Theory and Methods Energy Efficiency Energy Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Introduction -- Short Term Load Forecasting -- Extreme Value Theory -- Extreme Value Statistics -- Case Study -- References -- Index.
Sommario/riassunto	The overarching aim of this open access book is to present self-contained theory and algorithms for investigation and prediction of electric demand peaks. A cross-section of popular demand forecasting algorithms from statistics, machine learning and mathematics is presented, followed by extreme value theory techniques with examples. In order to achieve carbon targets, good forecasts of peaks are essential. For instance, shifting demand or charging battery depends on correct demand predictions in time. Majority of forecasting

	algorithms historically were focused on average load prediction. In order to model the peaks, methods from extreme value theory are applied. This allows us to study extremes without making any assumption on the central parts of demand distribution and to predict beyond the range of available data. While applied on individual loads, the techniques described in this book can be extended naturally to substations, or to commercial settings. Extreme value theory techniques presented can be also used across other disciplines, for example for predicting heavy rainfalls, wind speed, solar radiation and extreme weather events. The book is intended for students, academics, engineers and professionals that are interested in short term load prediction, energy data analytics, battery control, demand side response and data science in general. .

2.

Record Nr.	UNINA9910147065603321
Titolo	Protoplasma
Pubbl/distr/stampa	Wien, : Springer-Verlag
ISSN	1615-6102
Disciplina	571.6
Soggetti	Protoplasm Protoplasme Cellules - Physiologie Cellules - Ultrastructure Protoplasma Cytologie Periodicals. Zeitschrift Online-Publikation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed "An International Journal of Animal, Fungal and Plant Cell Biology."

3. Record Nr. UNINA9910231835703321

Titolo	Journal of computational and theoretical transport
Pubbl/distr/stampa	Philadelphia, PA : , : Taylor & Francis Group, , [2014]- ©2014-
ISSN	2332-4325
Disciplina	530.138
Soggetti	Transport theory Statistical physics Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed