Record Nr.	UNINA9910299774803321
Titolo	Modeling and Stochastic Learning for Forecasting in High Dimensions / / edited by Anestis Antoniadis, Jean-Michel Poggi, Xavier Brossat
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-18732-5
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (344 p.)
Collana	Lecture Notes in Statistics - Proceedings, , 1869-7240 ; ; 217
Disciplina	003.2
Soggetti	Statistics Mathematical models Mathematical statistics Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences Mathematical Modeling and Industrial Mathematics Probability and Statistics in Computer Science
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 at the end of each chapters.
Nota di contenuto	1 Short Term Load Forecasting in the Industry for Establishing Consumption Baselines: A French Case 2 Confidence intervals and tests for high-dimensional models: a compact review 3 Modelling and forecasting daily electricity load via curve linear regression 4 Constructing Graphical Models via the Focused Information Criterion 5 Nonparametric short term Forecasting electricity consumption with IBR 6 Forecasting the electricity consumption by aggregating experts 7 Flexible and dynamic modeling of dependencies via copulas 8 Operational and online residential baseline estimation 9 Forecasting intra day load curves using sparse functional regression 10 Modelling and Prediction of Time Series Arising on a Graph 11 GAM model based large scale electrical load simulation for smart grids 12 Spot volatility estimation for high-frequency data: adaptive estimation in practice 13 Time series prediction via aggregation: an oracle bound including numerical cost 14 Space-time trajectories of wind power generation: Parametrized precision matrices under a Gaussian copula approach 15 Game-theoretically Optimal Reconciliation of

1.

	Contemporaneous Hierarchical Time Series Forecasts 16 The BAGIDIS distance: about a fractal topology, with applications to functional classification and prediction.
Sommario/riassunto	The chapters in this volume stress the need for advances in theoretical understanding to go hand-in-hand with the widespread practical application of forecasting in industry. Forecasting and time series prediction have enjoyed considerable attention over the last few decades, fostered by impressive advances in observational capabilities and measurement procedures. On June 5-7, 2013, an international Workshop on Industry Practices for FORecasting was held in Paris, France, organized and supported by the OSIRIS Department of Electricité de France Research and Development Division. In keeping with tradition, both theoretical statistical results and practical contributions on this active field of statistical research and on forecasting issues in a rapidly evolving industrial environment are presented. The volume reflects the broad spectrum of the conference, including 16 articles contributed by specialists in various areas. The material compiled is broad in scope and ranges from new findings on forecasting in industry and in time series, on nonparametric and functional methods, and on on-line machine learning for forecasting, to the latest developments in tools for high dimension and complex data analysis.