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Autore	Bee Dagum Estela
Titolo	Seasonal Adjustment Methods and Real Time Trend-Cycle Estimation / / by Estela Bee Dagum, Silvia Bianconcini
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ISBN	3-319-31822-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XVI, 283 p. 52 illus., 10 illus. in color.)
Collana	Statistics for Social and Behavioral Sciences, , 2199-7365
Disciplina	330.0182
Soggetti	Statistics Social sciences - Statistical methods Macroeconomics Probabilities Econometrics Statistics in Business, Management, Economics, Finance, Insurance Statistical Theory and Methods Statistics in Social Sciences, Humanities, Law, Education, Behavorial Sciences, Public Policy Macroeconomics and Monetary Economics Probability Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Time Series Components -- Part I: Seasonal Adjustment Methods -- Seasonal Adjustment: Meaning, Purpose and Methods -- Linear Filters Seasonal Adjustment Methods: Census Method II and its Variants -- Seasonal Adjustment Based on ARIMA Decomposition: TRAMO-SEATS.- Seasonal Adjustment Based on Structural Time Series Models -- Part II: Trend-Cycle Estimation.- Trend-Cycle Estimation. - Further Developments on the Henderson Trend-Cycle Filter.- A Unified View of Trend-Cycle Predictors in Reproducing Kernel Hilbert Spaces (RKHS).- Real Time Trend-Cycle Prediction.- The Effect of Seasonal Adjustment on Real-Time Trend-Cycle Prediction -- Glossary.
Sommario/riassunto	This book explores widely used seasonal adjustment methods and recent developments in real time trend-cycle estimation. It discusses in

detail the properties and limitations of X12ARIMA, TRAMO-SEATS and STAMP - the main seasonal adjustment methods used by statistical agencies. Several real-world cases illustrate each method and real data examples can be followed throughout the text. The trend-cycle estimation is presented using nonparametric techniques based on moving averages, linear filters and reproducing kernel Hilbert spaces, taking recent advances into account. The book provides a systematical treatment of results that to date have been scattered throughout the literature. Seasonal adjustment and real time trend-cycle prediction play an essential part at all levels of activity in modern economies. They are used by governments to counteract cyclical recessions, by central banks to control inflation, by decision makers for better modeling and planning and by hospitals, manufacturers, builders, transportation, and consumers in general to decide on appropriate action. This book appeals to practitioners in government institutions, finance and business, macroeconomists, and other professionals who use economic data as well as academic researchers in time series analysis, seasonal adjustment methods, filtering and signal extraction. It is also useful for graduate and final-year undergraduate courses in econometrics and time series with a good understanding of linear regression and matrix algebra, as well as ARIMA modelling.