DESCRIPTION

This handbook provides an up-to-date survey of current research topics and applications of time series analysis methods written by leading experts in their fields. It covers recent developments in univariate as well as bivariate and multivariate time series analysis techniques ranging from physics' to life sciences' applications. Each chapter comprises both methodological aspects and applications to real world complex systems, such as the human brain or Earth's climate. Covering an exceptionally broad spectrum of topics, beginners, experts and practitioners who seek to understand the latest developments will profit from this handbook.

ABOUT THE AUTHOR

The Editors are members of the research group "Data Analysis and Modeling of Dynamic Processes in the Life Sciences" at the Center for Data Analysis and Modeling of the University of Freiburg, Germany. In interdisciplinary projects, they develop, investigate and apply mathematical methods to elucidate properties of complex systems in the field of neurology based on multivariate time series.