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Engineering : Computational Intelligence

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Studies on Time Series Applications in Environmental Sciences

- Interdisciplinary approach to time series modeling and forecasting applied to environmental sciences and computational geosciences
- Presents Time Series Applications in Environmental Sciences, especially in the field of meteorology and hydrology
- Provides various examples and alternative solutions

Time series analysis and modelling represent a large study field, implying the approach from the perspective of the time and frequency, with applications in different domains. Modelling hydro-meteorological time series is difficult due to the characteristics of these series, as long range dependence, spatial dependence, the correlation with other series. Continuous spatial data plays an important role in planning, risk assessment and decision making in environmental management. In this context, in this book we present various statistical tests and modelling techniques used for time series analysis, as well as applications to hydro-meteorological series from Dobrogea, a region situated in the south-eastern part of Romania, less studied till now. Part of the results are accompanied by their R code.

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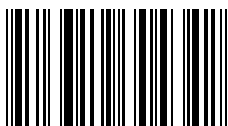
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