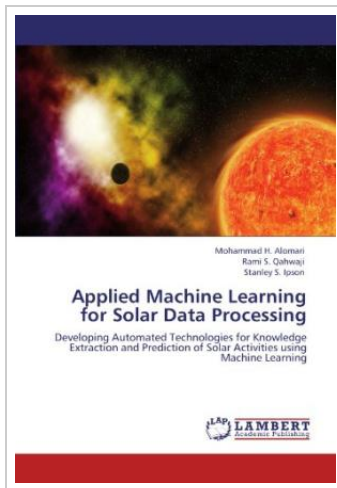




Applied Machine Learning for Solar Data Processing

By Alomari, Mohammad H. / Qahwaji, Rami S.

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Developing Automated Technologies for Knowledge Extraction and Prediction of Solar Activities using Machine Learning | It is becoming increasingly important to understand the possible cause and effect relationships between these solar events and features to produce timely and reliable computer-based forecasting of extreme solar events. These forecasts are very important for protecting our technological infra-structures and human life on earth and in space. The need to develop automated tools to process solar data is also increasing because existing space missions are sending huge amounts of data and scientists back on Earth are struggling to keep pace. In this book, we present our research work introducing novel, fully computerised, machine learning-based decision rules and models that can be used within a system design for automated space weather forecasting. The system design in this book consists of three stages: (1) designing computer tools to find the associations among solar events and features (2) applying machine learning algorithms to the associations datasets and (3) studying the evolution patterns of sunspot groups using time-series methods. | Format: Paperback | Language/Sprache: english | 218 gr | 220x150x8 mm | 152 pp.



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