



Knowledge-Based Systems in Astronomy

By Heck, Andre / Murtagh, Fionn

Condition: New. Publisher/Verlag: Springer, Berlin | With contributions by numerous experts | This book gives a synthesis of the state of the art in artificial intelligence in astronomy and astrophysics, presents its current applications and points out directions of future work. The individual chapters report on the application of artificial intelligence techniques for large astronomical surveys, for processing cosmic ray data, for facilitating data reduction using image processing systems, for telescope scheduling, for observatory ground support operations, for observation proposal preparation assistance, and for scientific applications such as stellar spectral and galaxy morphology classification. The new field of connectionism (neural networks) is also surveyed. The book is designed to be self-contained: a glossary of terms used in this area is provided and an index of terms, acronyms and proper names completes the book. | Artificial intelligence applications for Hubble Space Telescope operations.- Knowledge based telescope scheduling.- Survey work with automated data analysis.- Distributed point-pattern matching.- Decision problems in the search for periodicities in gamma-ray astronomy. How can A.I. help?.- Classification and knowledge.- WOLF - A computer expert system for sunspot classification and solar flare prediction.- Knowledge based classification of galaxies.- Classification of IUE spectra: A rule based approach.- Representation of...



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