ADS Paper Titles and Keywords

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| Paper Title | Keywords |
| Predicting Solar Flares Using CNN and LSTM on Two Solar Cycles of Active Region Data | Solar flares, Neural networks, Solar active region magnetic fields, Astronomy data analysis, Classification, 1496, 1933, 1975, 1858, 1907, Astrophysics - Solar and Stellar Astrophysics, Computer Science - Artificial Intelligence, Computer Science - Computer Vision and Pattern Recognition |
| Predicting Solar Flares with Machine Learning: Investigating Solar Cycle Dependence | Solar flares, Solar activity, 1496, 1475, Astrophysics - Solar and Stellar Astrophysics |
| Identifying Solar Flare Precursors Using Time Series of SDO/HMI Images and SHARP Parameters | solar flares, machine learning, prediction, Astrophysics - Solar and Stellar Astrophysics |
| Solar Flare Intensity Prediction With Machine Learning Models | Astrophysics - Solar and Stellar Astrophysics |
| Interpretable Machine Learning to Forecast SEP Events for Solar Cycle 23 | solar energetic particles, forecast, SMARP, machine learning, solar flares, prediction |
| A Machine-learning Data Set Prepared from the NASA Solar Dynamics Observatory Mission | astronomical databases: miscellaneous, catalogs, editorials, notices, miscellaneous, surveys, Astrophysics - Solar and Stellar Astrophysics, Computer Science - Artificial Intelligence, Computer Science - Databases, Computer Science - Machine Learning |
| Interpreting LSTM Prediction on Solar Flare Eruption with Time-series Clustering | Astrophysics - Solar and Stellar Astrophysics, Statistics - Machine Learning |
| What sustained multi-disciplinary research can achieve: The space weather modeling framework | Space weather, Solar flares and CMEs, Scientific computing, Space plasma physics, MHD, Physics - Space Physics, Astrophysics - Earth and Planetary Astrophysics, Physics - Computational Physics, Physics - Plasma Physics |
| Ionospheric TEC forecast model based on support vector machine with GPU acceleration in the China region | Ionosphere, TEC, Support vector machine, GPU acceleration, Prediction |
| Variation in Cosmic-Ray Intensity Lags Sunspot Number: Implications of Late Opening of Solar Magnetic Field | Cosmic rays, Solar magnetic fields, Solar cycle, Heliosphere, 329, 1503, 1487, 711, Astrophysics - Solar and Stellar Astrophysics |
| Review of Solar Energetic Particle Prediction Models | Space radiation, Solar energetic particles, Space weather models, Space weather forecasting, SEP models |
| Improvement of a Deep Learning Algorithm for Total Electron Content Maps: Image Completion | deep learning, TEC map completion, generative adversarial network |
| Real-Time SWMF at CCMC: Assessing the Dst Output From Continuous Operational Simulations | space weather modeling, nowcasting, storm simulations |
| Parameters Derived from the SDO/HMI Vector Magnetic Field Data: Potential to Improve Machine-learning-based Solar Flare Prediction Models | Sun: magnetic fields, Sun: flares |
| The Challenge of Machine Learning in Space Weather: Nowcasting and Forecasting | Physics - Space Physics, Physics - Data Analysis, Statistics and Probability |
| Flare Prediction Using Photospheric and Coronal Image Data | Flare History, Photospheric Vector Magnetic Field, Solar Image Data, Solar Dynamics Observatory (SDO), Flare Activity, Astrophysics - Solar and Stellar Astrophysics, Computer Science - Computer Vision and Pattern Recognition |
| The Origin, Early Evolution and Predictability of Solar Eruptions | Sun, CME, Space weather, Astrophysics - Solar and Stellar Astrophysics |
| CME Arrival Time Prediction Using Convolutional Neural Network | solar–terrestrial relations, Sun: coronal mass ejections: CMEs, techniques: image processing |
| Magnetohydrodynamic Simulation of the X9.3 Flare on 2017 September 6: Evolving Magnetic Topology | magnetic fields, magnetohydrodynamics: MHD, methods: numerical, Sun: corona, Sun: flares, Astrophysics - Solar and Stellar Astrophysics |
| Solar Flare Prediction Based on the Fusion of Multiple Deep-learning Models | 1496 |

# Distinct Keywords (Sorted)

* 1475
* 1487
* 1496
* 1503
* 1858
* 1907
* 1933
* 1975
* 329
* 711
* astronomical databases: miscellaneous
* astronomy data analysis
* astrophysics - earth and planetary astrophysics
* astrophysics - solar and stellar astrophysics
* catalogs
* classification
* cme
* computer science - artificial intelligence
* computer science - computer vision and pattern recognition
* computer science - databases
* computer science - machine learning
* cosmic rays
* deep learning
* editorials
* flare activity
* flare history
* forecast
* generative adversarial network
* gpu acceleration
* heliosphere
* ionosphere
* machine learning
* magnetic fields
* magnetohydrodynamics: mhd
* methods: numerical
* mhd
* miscellaneous
* neural networks
* notices
* nowcasting
* photospheric vector magnetic field
* physics - computational physics
* physics - data analysis
* physics - plasma physics
* physics - space physics
* prediction
* scientific computing
* sep models
* smarp
* solar active region magnetic fields
* solar activity
* solar cycle
* solar dynamics observatory (sdo)
* solar energetic particles
* solar flares
* solar flares and cmes
* solar image data
* solar magnetic fields
* solar–terrestrial relations
* space plasma physics
* space radiation
* space weather
* space weather forecasting
* space weather modeling
* space weather models
* statistics - machine learning
* statistics and probability
* storm simulations
* sun
* sun: corona
* sun: coronal mass ejections: cmes
* sun: flares
* sun: magnetic fields
* support vector machine
* surveys
* tec
* tec map completion
* techniques: image processing