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Research Interests:

Astroinformatics

Astronomical Techniques and Methods

Virtual Observatory Technology

Selected Publications:

(1) **Jie Wang***, Hai-Long Zhang*, Na Wang, Xin-Chen Ye, Wan-Qiong Wang, Jia Li, Meng Zhang, Ya-Zhou Zhang , Xu Du. Investigation of Traffic Classification Applied to an Astronomical Data Transmission Network of the XAO Using Deep Learning, Research in Astronomy and Astrophysics, 2023, 23(3):035003.

(2) **Jie Wang**, Hai-Long Zhang*, Na Wang; Xin-Chen Ye, Wan-Qiong Wang, Jia Li, Meng Zhang, Ya-ZhouZhang, Xu Du. Simulation Study of Network Reconfiguration and Load-balancing Method for the Xinjiang Astronomical Observatory Data Center[J]. Research in Astronomy and Astrophysics, 2022,22(09):095022.

(3) **Jie Wang***. AstroInformatics: Expanding New Perspectives on the Mysteries of the Universe.Open Access Journal of Astronomy (OAJA), DOI: 10.23880/oaja-16000107.

(4) Hai-Long Zhang*, **Jie Wang***, Xin-Chen Ye, Wan-Qiong Wang, Jia Li, Ya-Zhou Zhang, Xu Du, Han Wu and Ting Zhang. A Cross-matching Service for Data Center of Xinjiang Astronomical Observatory, Research in Astronomy and Astrophysics, 2024, 24(01): 015008.

(5) Zhang H L, **Wang J***, Zhang Y Z, Du X, Wu H, Zhang T. Review of artificial

intelligence applications in astronomical data processing. *Astronomical Techniques and Instruments*, 2024, 1(1), 1–15, <https://doi.org/10.61977/ati2024001>.

(6) Liu Zhong-bao, **WANG Jie***. Research on the Improvement of Spectra Classification Performance With the High-Performance Hybrid Deep Learning Network[J]. *Spectroscopy and Spectral Analysis*, 2022, 42(03): 699 - 703.