

Examples of AI applications in Astronomy

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AI techniques have influenced astronomy deeply especially in recent years. Astronomy has big data, versatile data formats, and numerous tasks like object identification, classification, clustering, measurement, etc., which are right in the field for AI applications. Now with more and more telescopes being in construction, enormous astronomical datasets are appearing, demanding more AI techniques. This report is based on my own research group, which will give some examples of AI applications in astronomy. It includes tasks from different telescopes, like LAMOST, SDSS, etc., as well as some different data formats, and different real demands.