

Clustering and Data Visualisation Algorithms for Astrophysics (Adam Knowles & Dharmesh Mistry / LJMU)

Tuesday, 16 July 2024 10:30 (2 hours)

Clustering reveals natural groupings within data, while dimensionality reduction enables the easy visualisation of underlying structures in high-dimensional data. They are essential, powerful tools for exploratory data analysis and pattern recognition. Such methods are readily available, easily implemented and commonplace in many disciplines including astrophysics and healthcare. In this session, we will give an overview of a few widely-used algorithms, present some practical applications to different datasets and provide some hands-on experience through group activities.

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