

TimeTubesX

Interactive Feature Analytics

Visualization

Input

Data

Observatory A
Observatory B
Observatory C
...

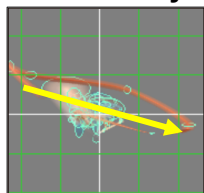
Visual Data Fusion

A

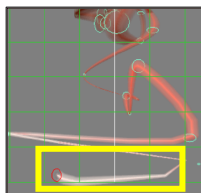
Feature and pattern detection

Automatic feature extraction

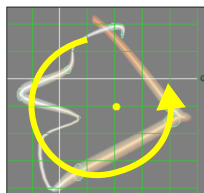
Anomaly



Flare

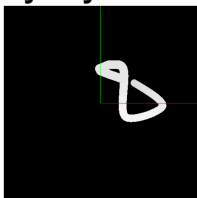


Rotation

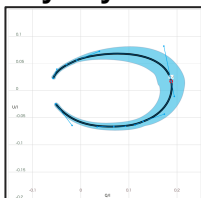


Dynamic visual querying

Query-by-example



Query-by-sketch



B

Query matches: overview

Results are sorted by:



Distance



Time stamp



Data

etc.

C

Query matches: detailed analysis

Screenshot

Time stamp

Comparative
line charts

Distance

Rotation angle

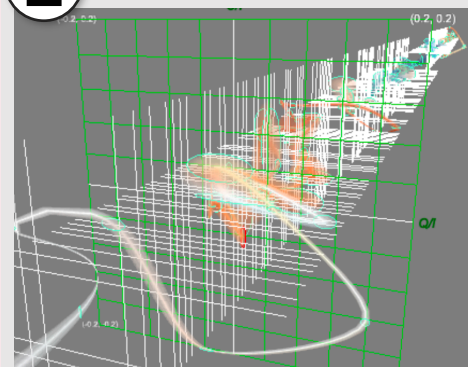
etc.

D

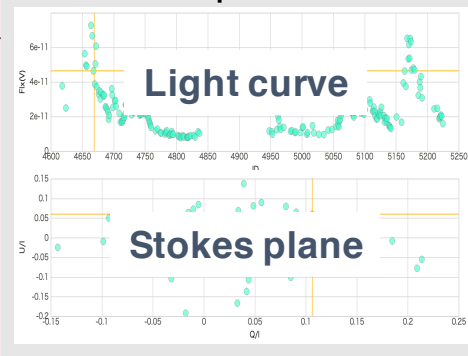
Fact-guided querying

E

TimeTubes view



Scatterplots view



Knowledge

Astronomer