Abstract

The goal of the work was to create an interface between the ASTROGRID and GRID infrastructures. Our interface allows an ASTROGRID user (who has an ASTROGRID certificate but no GRID certificate) to start computational tasks on the Grid from the ASTROGRID Workbench. “Grid_launcher” has been implemented and tested on:

- VONeural_MLP (supervised clustering),
- VONeural_SVM (supervised clustering),
- SExtractor (extraction of object-catalogs from astronomical images),
- SWARP (resample and co-add FITS images using any arbitrary astrometric projection defined in the WCS standard).

All these programs are registered inside CEC of ASTROGRID.

GRID-launcher work-flow:
A - schema, B - the work-flow from AG to WN, C – the work-flow from WN to AG.