

The Taiwan Extragalactic Astronomical Data Center

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Dr. Foucaud is the Principal Investigator of the Taiwan Extragalactic Astronomical Data Center and is leading the Virtual Observatory efforts in Taiwan. His research is focused on Galaxy evolution and Cosmology.

Abstract

Founded in 2010, the Taiwan Extragalactic Astronomical Data Center (TWEA-DC) has for goal to propose access to large amount of data for the Taiwanese and International community, focusing its efforts on Extragalactic science. In continuation with individual efforts in Taiwan over the past few years, this is the first stepping-stone towards the building of a National Virtual Observatory.

Making advantage of our own fast indexing algorithm (BLINK), based on a octahedral meshing of the sky coupled with a very fast kd-tree and a clever parallelization amongst available resources, TWEA-DC is proposing a service of "on-the-fly" matching facility, between on-site catalogs and user-based catalogs. We are also planning to offer access to raw and reducible data available from archives worldwide, allowing a friendly access to this goldmine of under-exploited information. Finally, we are developing our own specific on-line analysis tools, such as an automated photometric redshifts and SED fitting code, an automated groups and clusters finder, and a multiple-objects and arc finder.