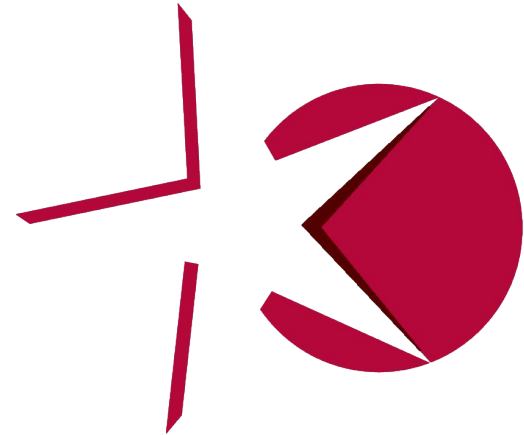


UNIFIED ASTRONOMY THESAURUS



Subject Terms in Astronomy Research

Katie Frey

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Author and Referee Workshop

227th AAS Meeting, Kissimmee, FL

January 6, 2016

Replacing Keywords



- alternative to existing subject keyword lists
- interest from publishers and institutions
- SAO/NASA Astrophysics Data System

fast novae

Magnetars

Comets

S-process

CMBR detectors

Nuclear abundances

Sunspot cycle

Solar coronal holes

Cosmic abundance

Ephemerides

Mass spectrometers

Hydroxyl masers

Galaxy dynamics

Recurrent novae

Bipolar sunspot groups

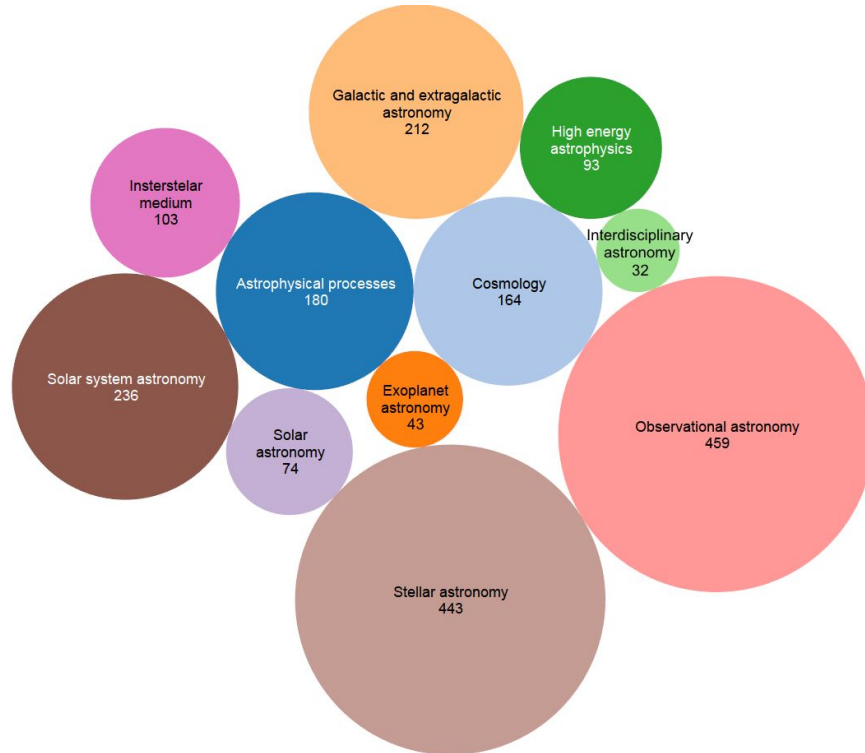
Radio loud quasars

Astrodynamics

Stellar nucleosynthesis

Radio observatories

Connecting Research

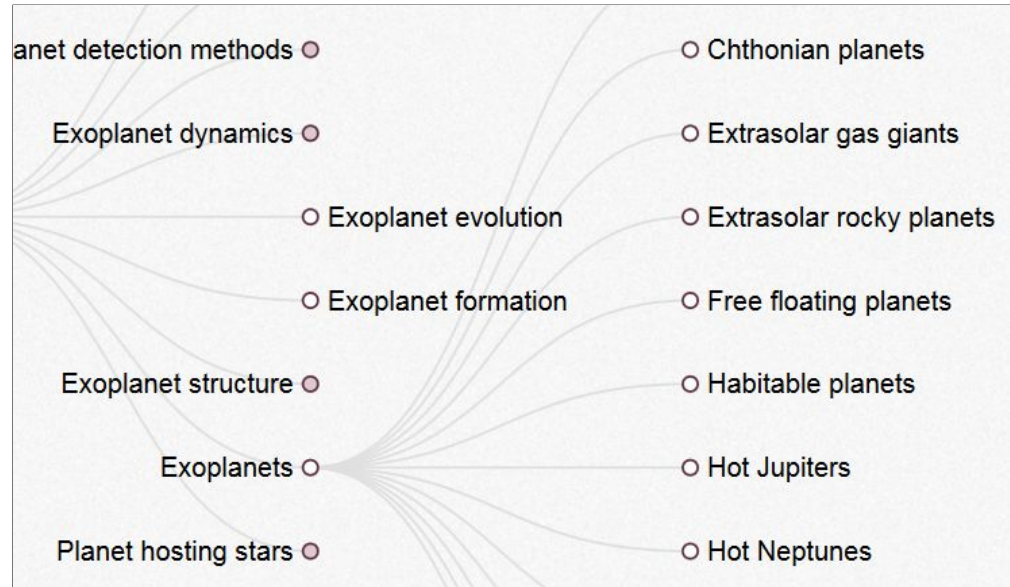


- consistent set of keywords
- articles, datasets, proposals, manuscripts, conferences, software
- filtering results

Structure of UAT



- hierarchical
- “related term” links
- linked data standards



History and Background



- IAU Thesaurus
Robyn M. Shobbrook (AAO) & Robert R. Shobbrook (Syd. Uni.), last updated 1995
- IVOA Thesaurus
Rick Hessman, last updated in 2009
- Astronomical Subject Keywords
Maintained by IoP, used by ApJ, AJ, MNRAS, PASP, PASJ, and A&A
- Physics and Astronomy Classification Scheme (PACS)
Retired by AIP in 2010
- IoP and AIP worked with a third party company to update their keyword lists separately, but ended up merging their projects. Further, the IAU and IVOA thesauri were integrated and the resulting thesaurus was donated to the AAS.

UAT Updates and Future

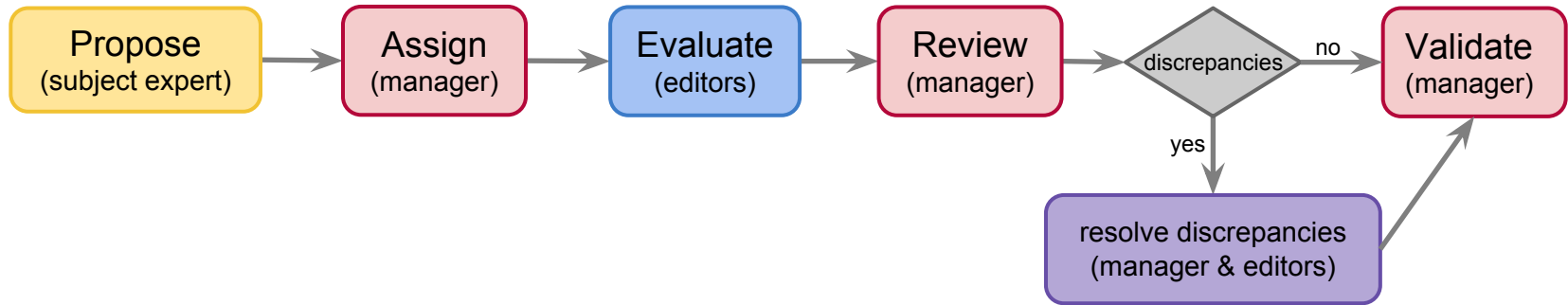


- UAT Beta [September 2014]
- subject experts from many institutions reviewed and contributed
- large structural changes, removed ~300 terms, added ~200
- UAT v.1 [December 2015]
- international participation
- expansion (instrumentation taxonomy, connecting with other projects)
- improvements (multilingual and definitions)

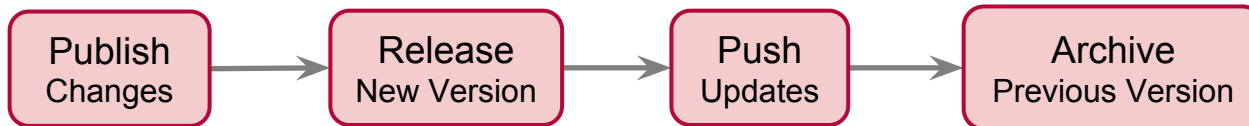
Review and Release Process



Contribution Workflow (constantly occurring process for every new suggestion)



Release Cycle (occurs when preparing for a new version release, roughly every 6 months)



Browse and Contribute



- <http://astrothesaurus.org/>

- <https://github.com/katieefrey/UAT>

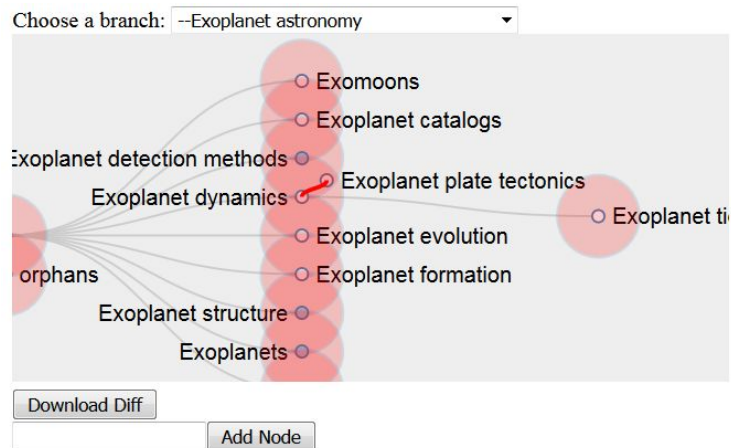
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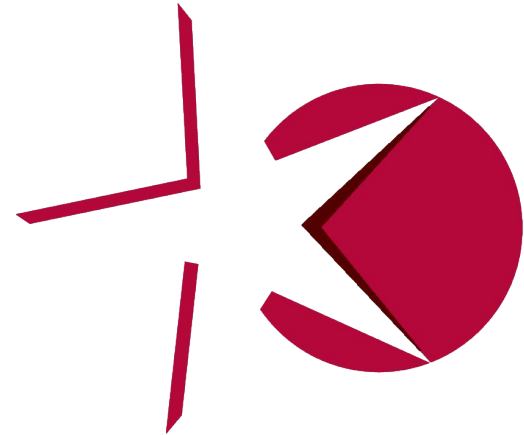
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```

- contribution form

- sorting tool



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