ADS → SciX Challenges and Opportunities

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17 Nov 2023 | ADS Users Group







Overview



Challenges

Irrelevant Results

Poor Useablity

Loss of Astronomy Focus

Opportunities

Cross-disciplinary

Discovery

Additional Resources

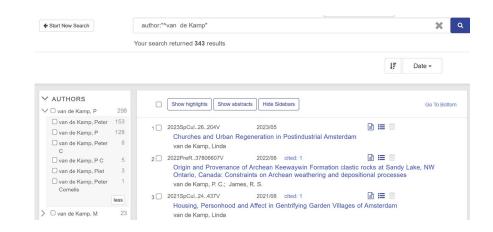
Al Advancement

Future of Users Group

Challenge: Irrelevant Results

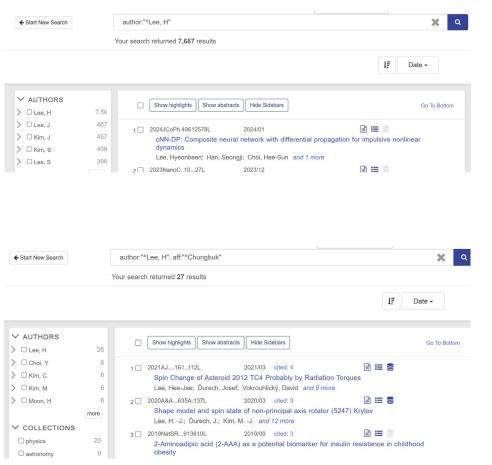
Increasing coverage of other disciplines

- More authors with similar names (Drs. Lee & Smith)
- More concepts with similar names (want exoplanet transits not railways as mass transit)



My "van de Kamp" was 48.

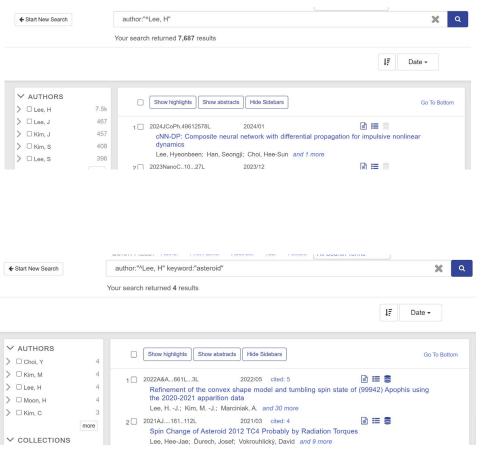
Challenge: Irrelevant Results



- Choice of collection
- Sorting by score
- Name disambiguation tools
 - ORCiD
 - Autocomplete or suggestions
 - Affiliations
- Keyword systems
 - Unified Astronomy Theasurus
 - Planetary feature names
 - Minor planet lists

Discovery Opportunity

Challenge: Irrelevant Results



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Discovery Opportunity

Disambiguation via ORCiD Proposed Timeline



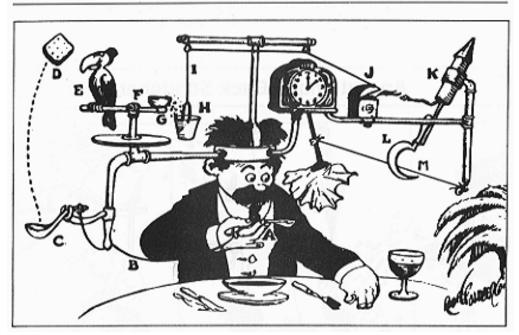
- FY23–24 Implement ORCiD/author name lookup for registered users: users opt into being more findable through an autocomplete function
- FY24–25 Author profiles linking accounts and ORCiD: making profiles searchable; populate author profiles with public ORCiD info, actively update ORCiD claims via events
- FY25–26 Implement public author profiles: users may make their profile searchable
- FY25–26 Enhance upkeep of author profiles via "Is this your paper?" functionality: proactively suggest additions to an author's ORCiD claims

Challenge: Poor Usebility

Increasing content, search options, settings, choices

- Slow responses
- Confusing interface
- Multistep operations
- Poor documentation

Self-Operating Napkin



Goldberg 1931

Challenge: Poor Useability



Careful, user-centered design

- Consider response time when selecting development options
- Continuous improvement
- KISS
- Expand beta-testing pool
- Increase avenues for user-feedback
- Improve documentation

User Engagement Opportunity

Challenge: Loss of Astronomy Focus

- Geoscience
 - largest collection
 - potentially largest user group
 - Less overlap with astronomy
 - More soft science



- Astronomy
 - first discipline
 - largest committed user community
 - most robust resource mapping
- Developments
 - Discipline neutral
 - Rolled out astronomy first



Opportunity: Cross-discipline discovery

- Can't find what isn't there; can't find if not looking
- Move away from highly focused, "linear" approach
 - Find "right" paper, then follow references and citations
- Need richer, more open exploration of literature
 - Requires new mindset, ADS toolset
 - "Non-expert" resources to understand other fields
 - Browsing mechanisms
 - Al is part of the answer but not all



What might you find?



SciX Users Group Requirements

About

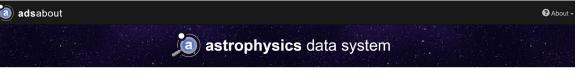
History of ADS

ADS Users Group

Past Presentations

Careers@ADS

 Need expertise from wider range of disciplines



 Need feedback from disciplines whose content maturity differs

 Too few representatives dilutes a community's voice, too many voices produces noise

ADS Users Group

The ADS Users Group (ADSUG) advises the ADS on the operations of the project, and recommends changes and improvements to both its services and procedures in order to maximize the scientific productivity of the community it serves. The ADSUG will advocate for the user community and provide suggestions regarding content curation, technical infrastructure, management, and priority setting.

The next Users Group meeting will take place November 16–17, 2023 virtually and at the Center for Astrophysics | Harvard & Smithsonian. In advance of the meeting, the Users Group is seeking community feedback through a brief user survey; please share your experience by 14 November to help enhance the ADS user experience and guide innovations.

Current members of the ADSUG are:

- J.J. Kavelaars chair; CADC, UVic, NRC Herzberg
- · Matthew J. Graham vice chair; CalTech
- Jason Barnes U. Idaho
- Julianne Dalcanton Flatiron Institute, U. Washington
- Vandana Desai Caltech/IPAC
- Silvia Meakins ESO
- · Aimee Norton Stanford
- · Annalisa Pillepich MPIA
- Licia Verde UB-IEEC



SciX of Users Group Format?



Altmann via Pixabay

- 1. Incrementally add members to expanded ADSUG
- 2. Create discipline-specific UG until certain level of maturity, then merge
- 3. Temporarily maintain current ADSUG plus new SciX expansion UG
- 4. Other?

