

Search v0.5

Search version 0.5

Start date: 12 Nov 2018 ; **release date:** 20 Dec 2018

Source code: <https://github.com/arXiv/arxiv-search/releases/tag/0.5.1>

This release addresses searching by cross-list category, including a fix for a regression in an earlier version of the search application.

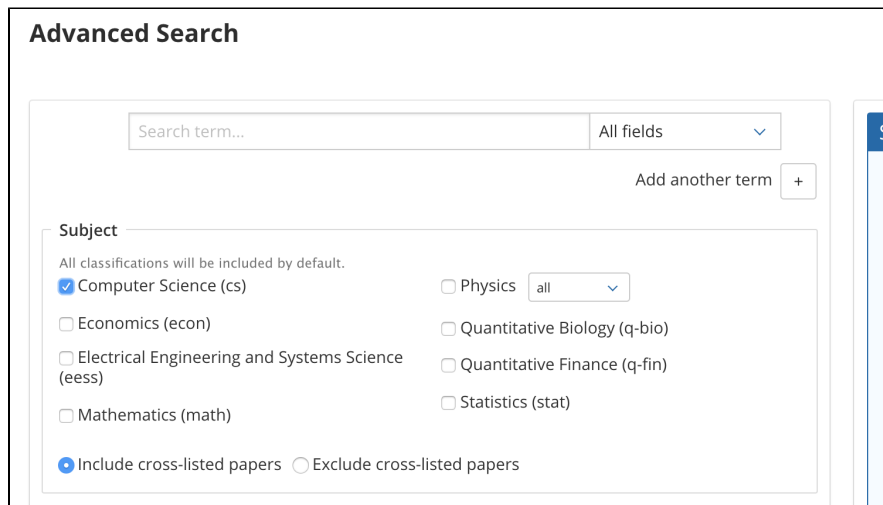
Features

- New cross-list category field in the advanced search interface.



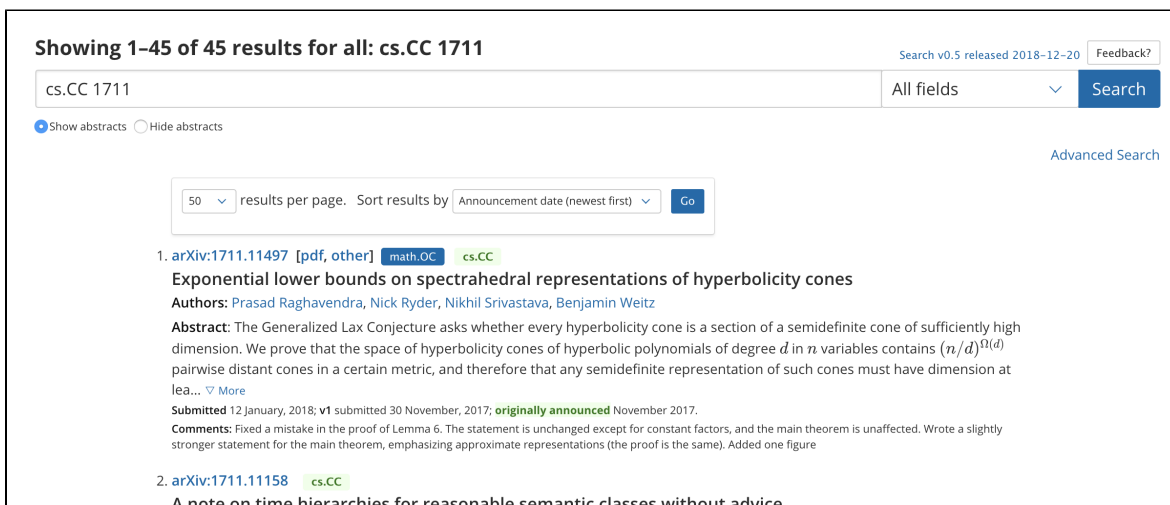
The screenshot shows a search interface with a search bar containing the text "complex variables". To the right of the search bar is a dropdown menu labeled "Cross-list category" with a downward arrow. Below the search bar is a button labeled "Add another term" with a plus sign. Below the search bar is a section labeled "Subject" with the text "All classifications will be included by default."

- Inclusion of cross-listed papers in search results can be enabled and disabled in the advanced search interface.



The screenshot shows the "Advanced Search" interface. It has a search bar with the placeholder "Search term..." and a dropdown menu labeled "All fields" with a downward arrow. To the right of the search bar is a button labeled "Add another term" with a plus sign. Below the search bar is a section labeled "Subject" with the text "All classifications will be included by default." Below this text are several checkboxes for subject categories: "Computer Science (cs)" (checked), "Economics (econ)", "Electrical Engineering and Systems Science (eess)", "Mathematics (math)", "Physics" (unchecked), "Quantitative Biology (q-bio)", "Quantitative Finance (q-fin)", and "Statistics (stat)". Below these checkboxes are two radio buttons: "Include cross-listed papers" (selected) and "Exclude cross-listed papers".

- All-fields search now matches on cross-list classification just like primary classification.



The screenshot shows the search results page. At the top, it says "Showing 1–45 of 45 results for all: cs.CC 1711". Below this is a search bar with the text "cs.CC 1711" and a dropdown menu labeled "All fields" with a downward arrow. To the right of the search bar is a button labeled "Search". Below the search bar are two radio buttons: "Show abstracts" (selected) and "Hide abstracts". Below the search bar is a section labeled "Advanced Search". Below this section are two dropdown menus: "50" (selected) and "results per page". To the right of these dropdown menus is a button labeled "Go". Below the search bar is a list of results. The first result is "1. arXiv:1711.11497 [pdf, other] math.OG cs.CC" with the title "Exponential lower bounds on spectrahedral representations of hyperbolicity cones". Below the title is the text "Authors: Prasad Raghavendra, Nick Ryder, Nikhil Srivastava, Benjamin Weitz". Below the authors is the text "Abstract: The Generalized Lax Conjecture asks whether every hyperbolicity cone is a section of a semidefinite cone of sufficiently high dimension. We prove that the space of hyperbolicity cones of hyperbolic polynomials of degree d in n variables contains $(n/d)^{\Omega(d)}$ pairwise distant cones in a certain metric, and therefore that any semidefinite representation of such cones must have dimension at least..." Below the abstract is the text "Submitted 12 January, 2018; v1 submitted 30 November, 2017; originally announced November 2017." Below the submitted date is the text "Comments: Fixed a mistake in the proof of Lemma 6. The statement is unchanged except for constant factors, and the main theorem is unaffected. Wrote a slightly stronger statement for the main theorem, emphasizing approximate representations (the proof is the same). Added one figure". The second result is "2. arXiv:1711.11158 cs.CC" with the title "A note on time hierarchies for reasonable semantic classes without advice".

- Cross-list classification is displayed in search results.

Bugs

- Fixed a regression that disabled cross-list classification in archive-level filtering.
- Fixed wonky layout of DOI and classification tags in search results on narrow displays.

Other

- Security fixes and improvements.