Paperscape.org

A project by Danielle P. George and Rob Kooperberg

Paperscape is an interactive map that visualizes the links, co-citation, and co-authorship of scientific papers. The map, which can be explored online by hovering and scrolling, currently visualizes all 200,000+ papers from the arXiv and its sister sites.

Each scientific paper is represented in the map by a circle whose size is determined by the number of times that paper has been cited by others. A paper's position in the map is determined by both co-citation (papers that cite it) and the co-authorship links (papers in which it has co-authors). The color and size of each circle indicates the size and nature of the paper's research area.

Papers are colored according to their arXiv category. As a small number of "categories" were not in use, such as the now-defunct high-energy physics TE (theoretical physics), the few bastardized time fields, as well as dark matter and cosmological inflation, linking articles in categories are uncommon or nonexistent representing more specific fields of research.

References (and citation counting) are estimated by combining the 100,000+ and 300,000+ articles identified by the arXiv. Currently, these categories are not designed for searching and have a lower reference content than others and so the map for these areas will remain visible in paper size and more retrieving comments.

Color scaling:

- Computer Science (cs): Computer Science (cs)