## Interactive Visualizations for Aslib.net Authors: Katherine Chawla and Lars Kotthoff

## Compare Algorithms



The previous Aslib.net graphs showed a plot for every possible combination of algorithms. The CPMP_2015 chart to the left is just one example.

Instead, the interactive version allows the user to dynamically assign an algorithm to each axis.

Note: color variation added for
poster
contrast


## View Tooltips

What are these outliers?
Hovering the mouse over any point shows additional information

## Why You Care

Aslib.net features data sets from 27 algorithm selection scenarios, but its previous graphs were static and nonspecific The new, interactive graphs allow users to choose what data they want to see, and how.

Now users can

- Compare algorithms (test portfolio compatibility)
- View tooltips (get info on specific points)
- Filter out failed runs (see trends more clearly)
- Zoom and pan (see detail in dense clusters)



## Zoom and Pan




For example, in the CSP 2010 scenario the "standard" model seems to dominate the "learning" model, except in a few cases.


However, upon zooming in, it becomes learn that the "learning" model performs as well or better on short runs

## Future Work

- Add log transforms
- Scale comparisons to largest data sets
- Improve filter interface (selector color, initially only select one choice)
- Add more graph types
- Improve code reusability
- Improve comparison readability (add 1:1 line)

