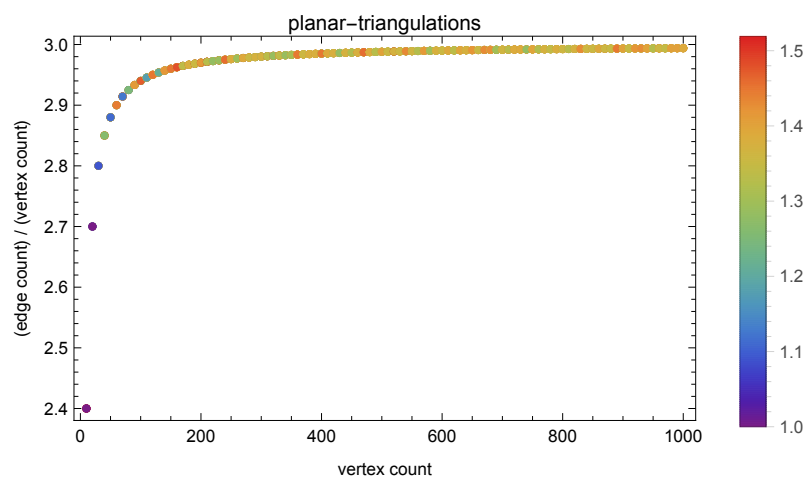
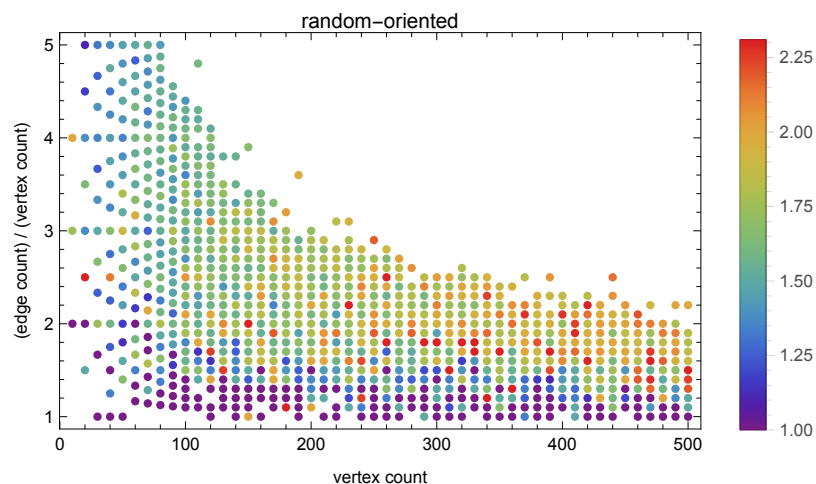
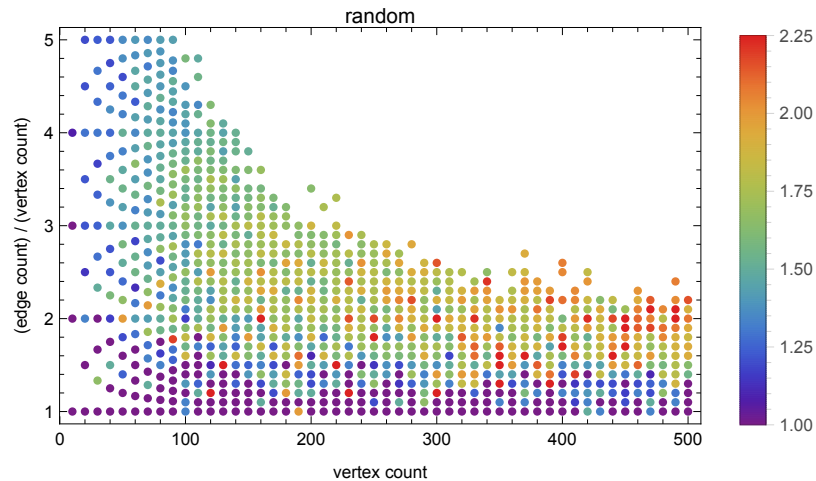


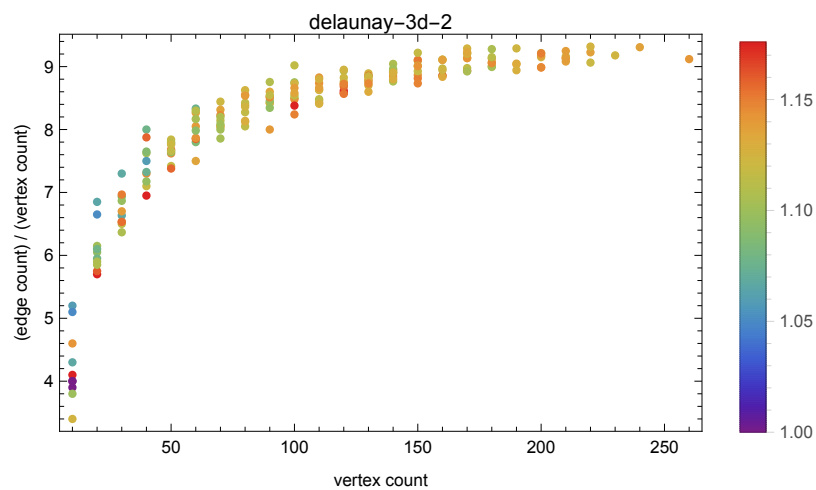
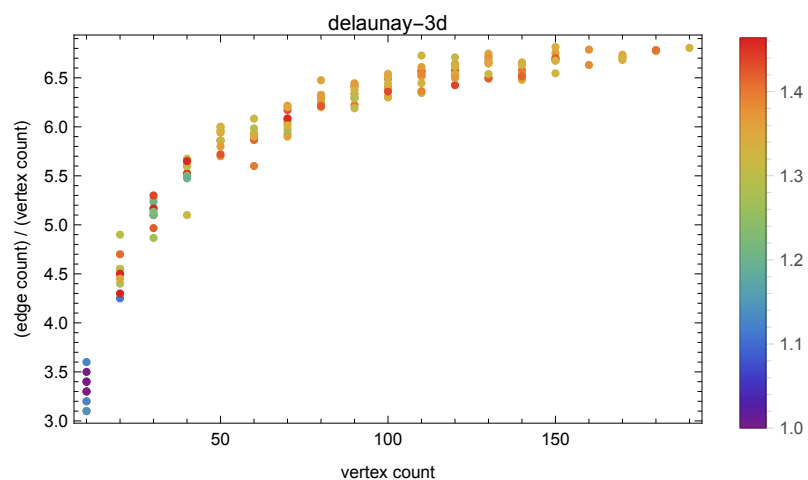
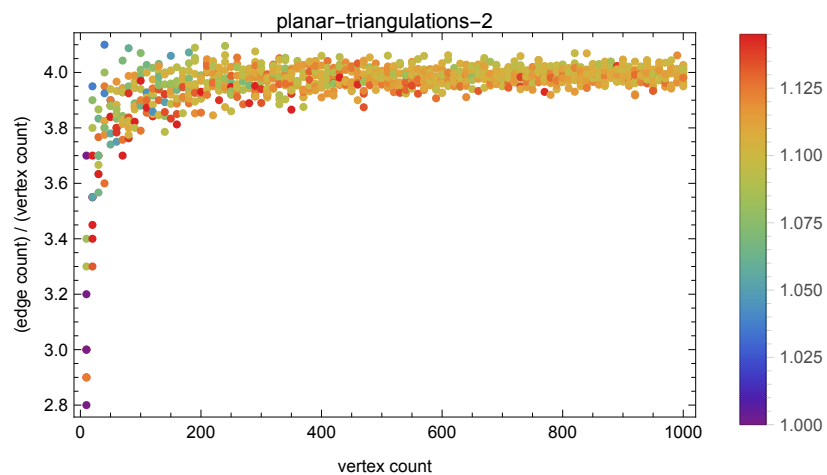
## Eades–Lin–Smyth heuristic quality

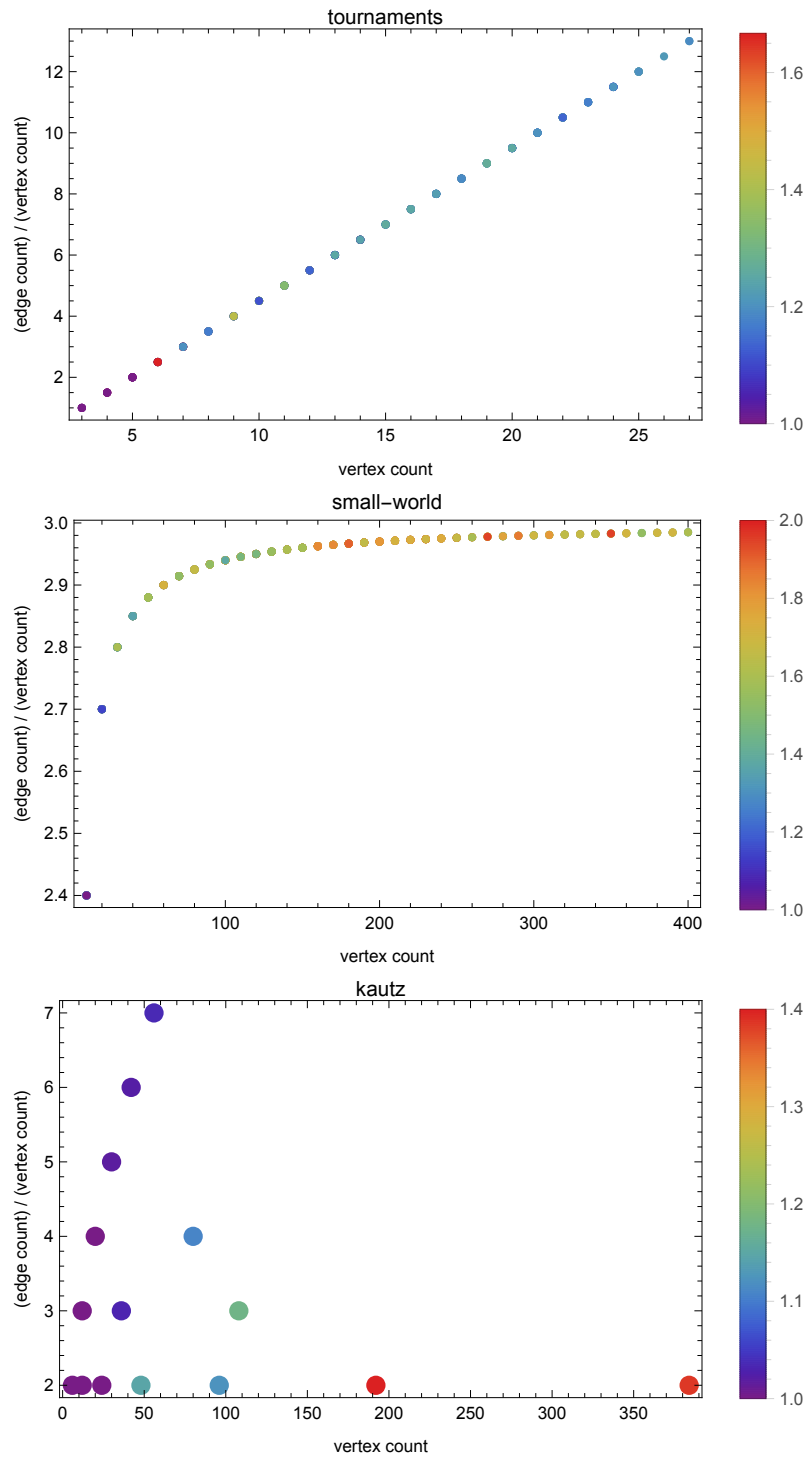
These plots show the quality of the Eades–Lin–Smyth (ELS) heuristic (“GR” heuristic).

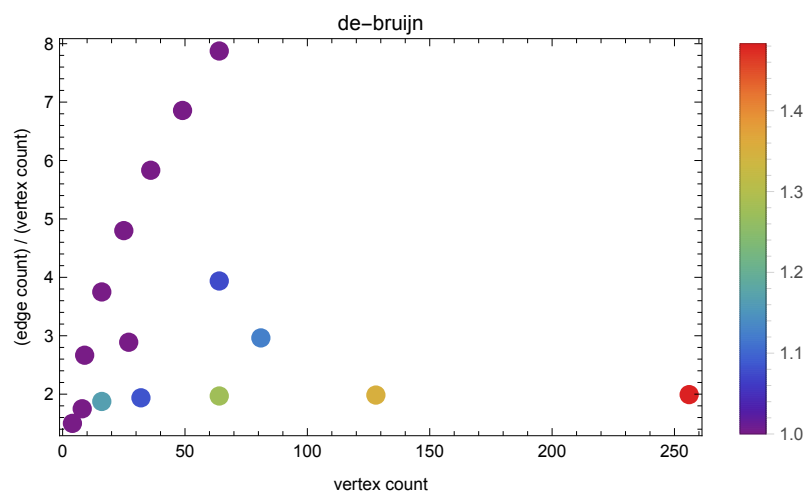
Peter Eades, Xuemin Lin, W.F. Smyth: A fast and effective heuristic for the feedback arc set problem, Information Processing Letters (1993).

- Colour show: (heuristic FAS size) / (minimum FAS size)
- Notice that the colour bars have a different range for each plot.

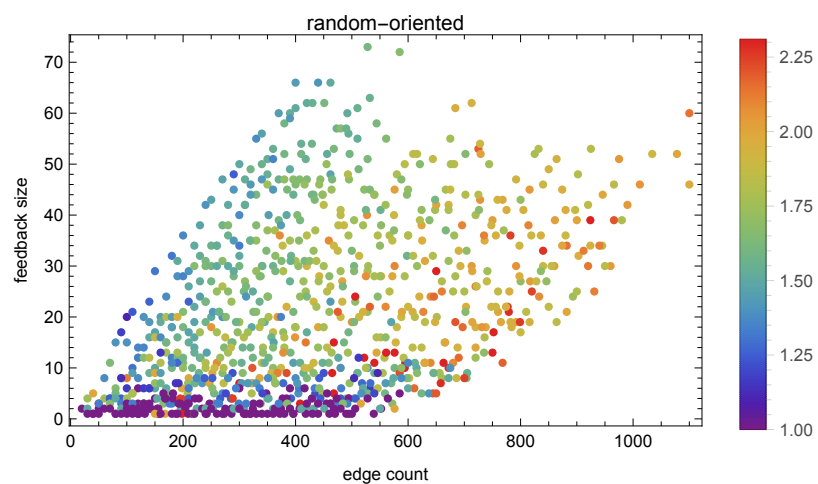
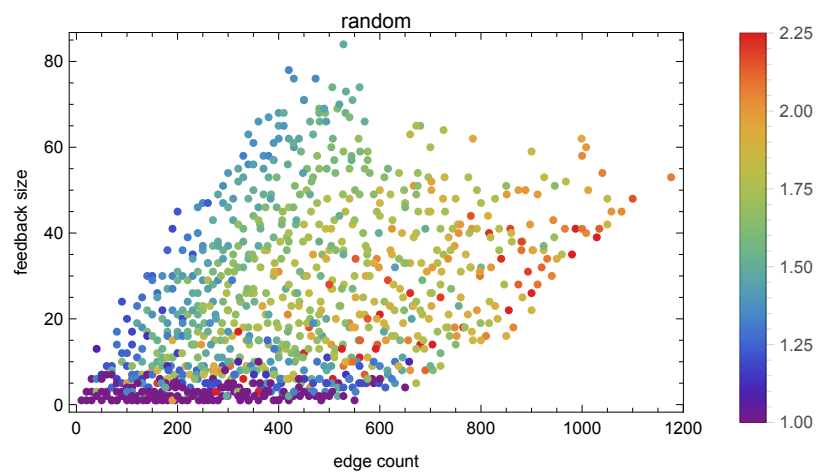


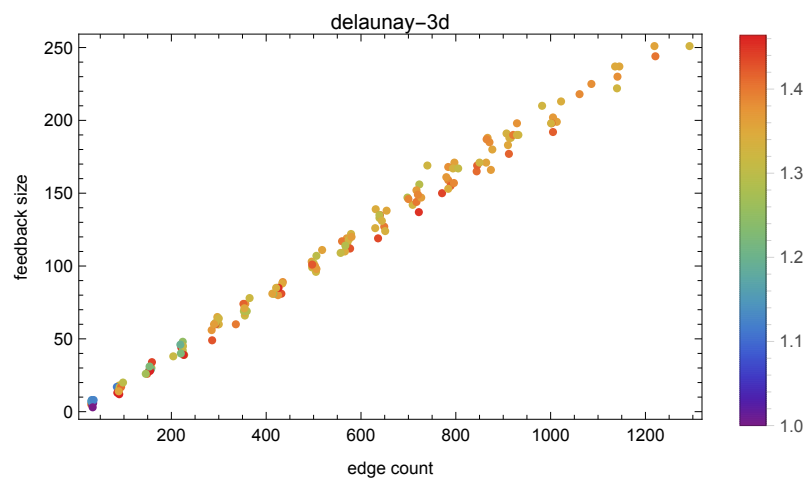
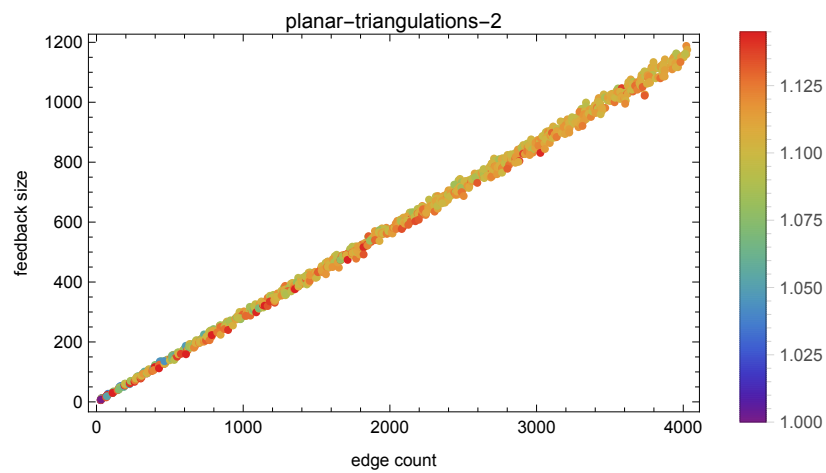
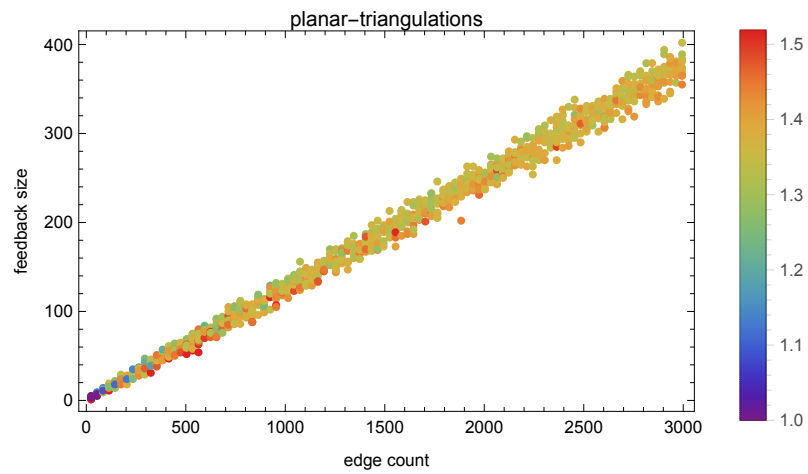


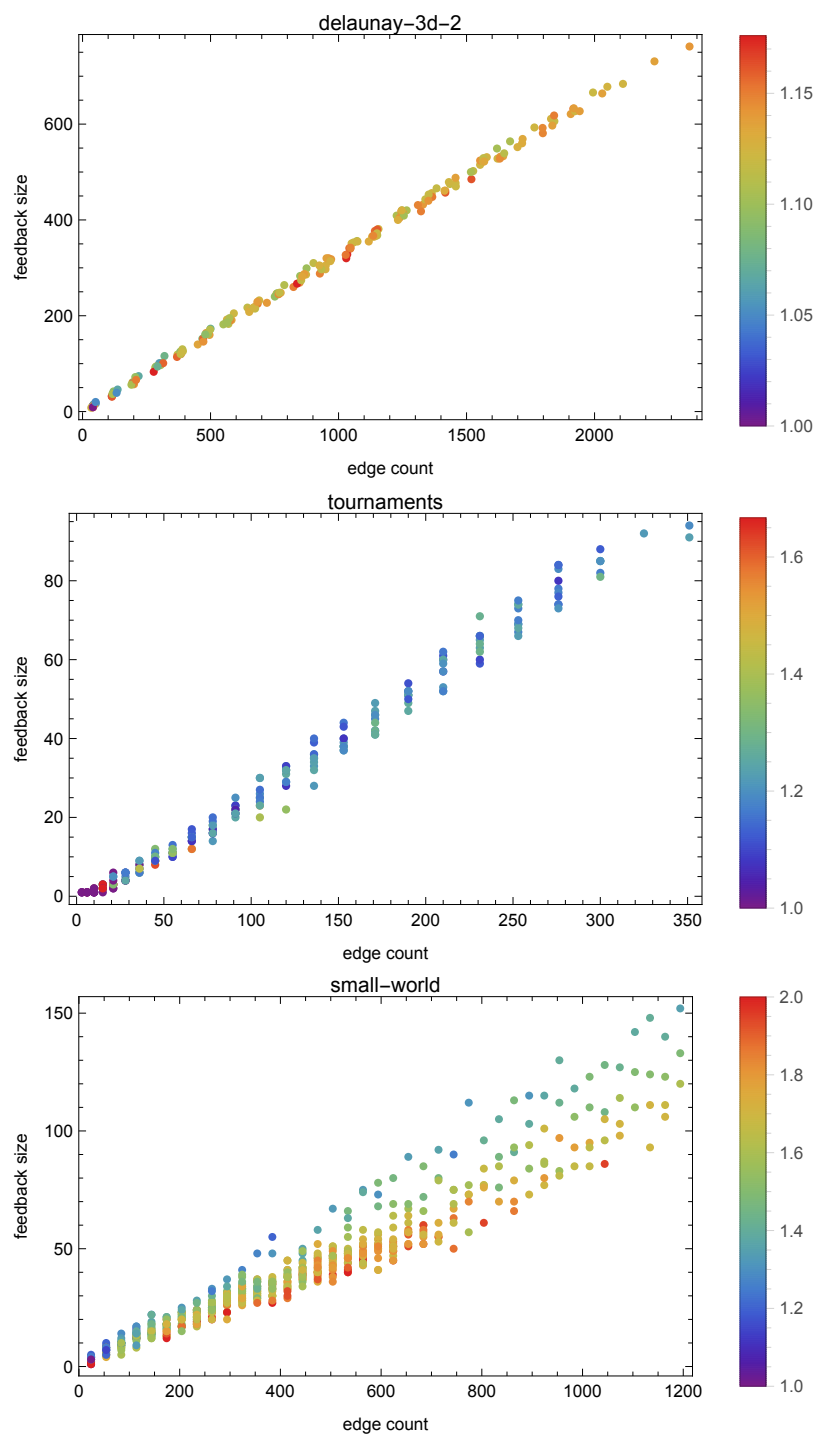


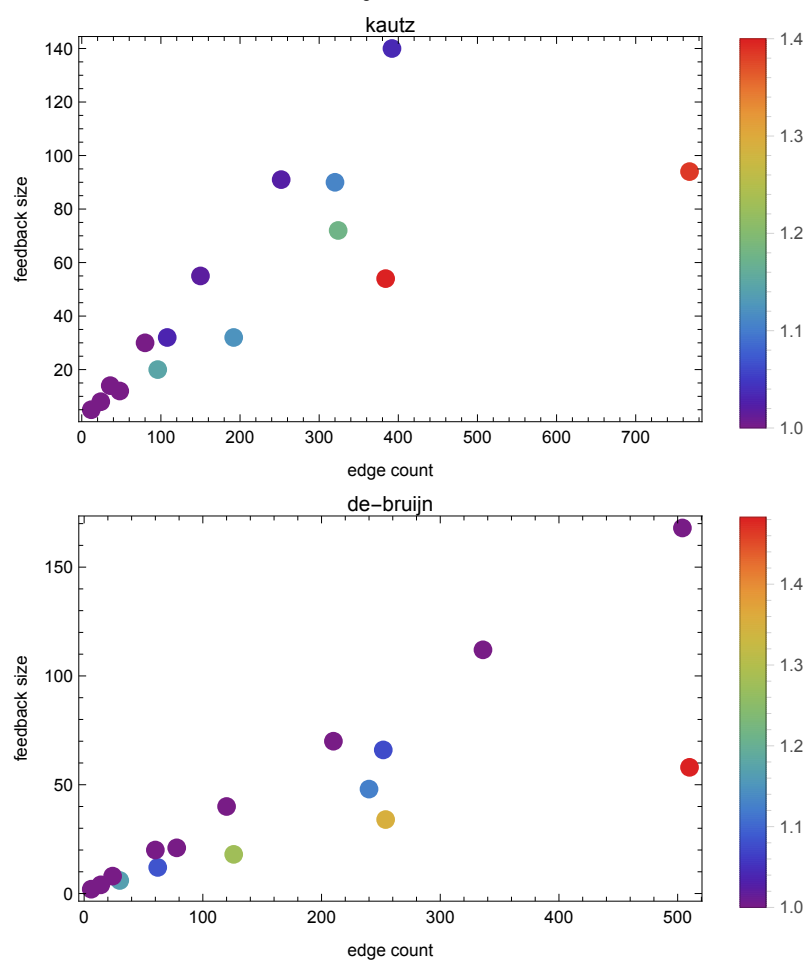


Same as above, in (edge count, feedback size) space.

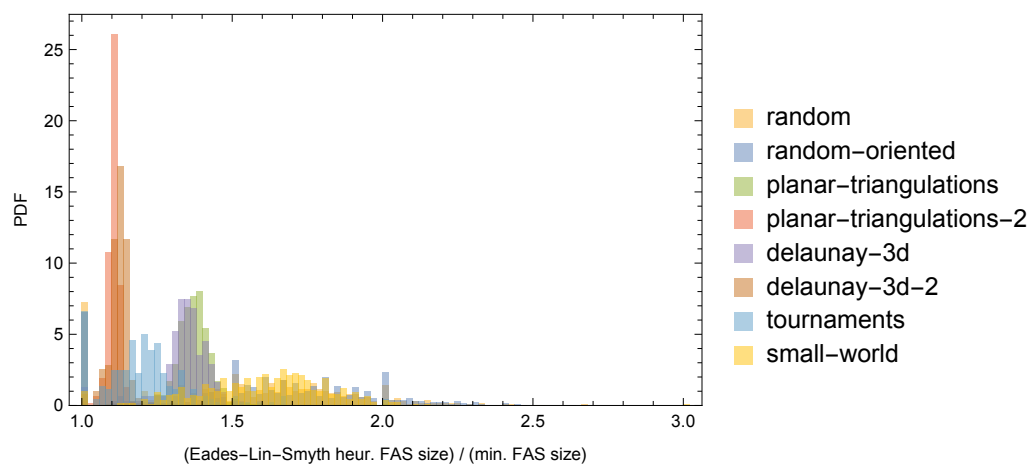


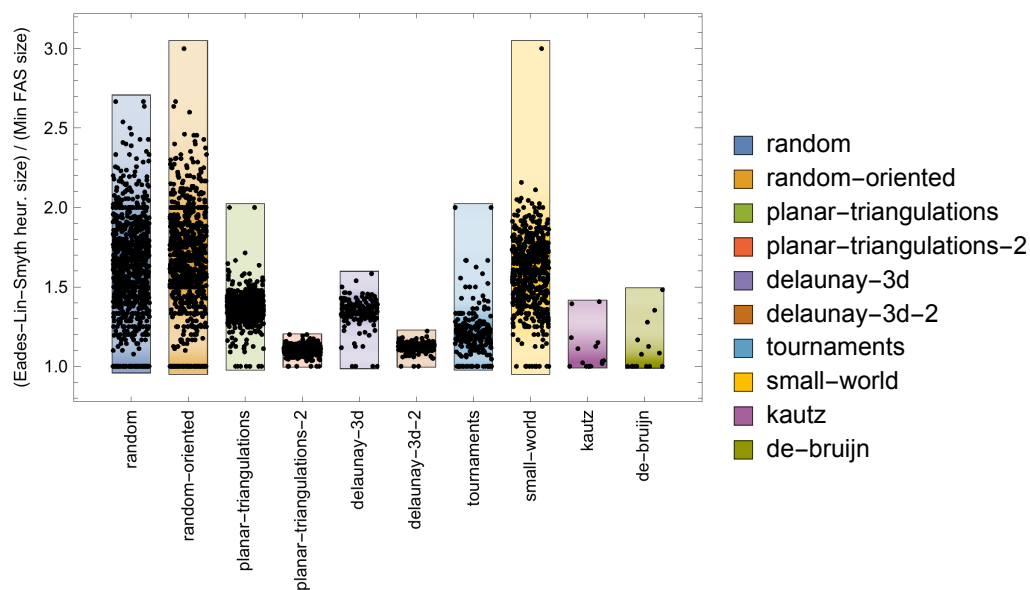




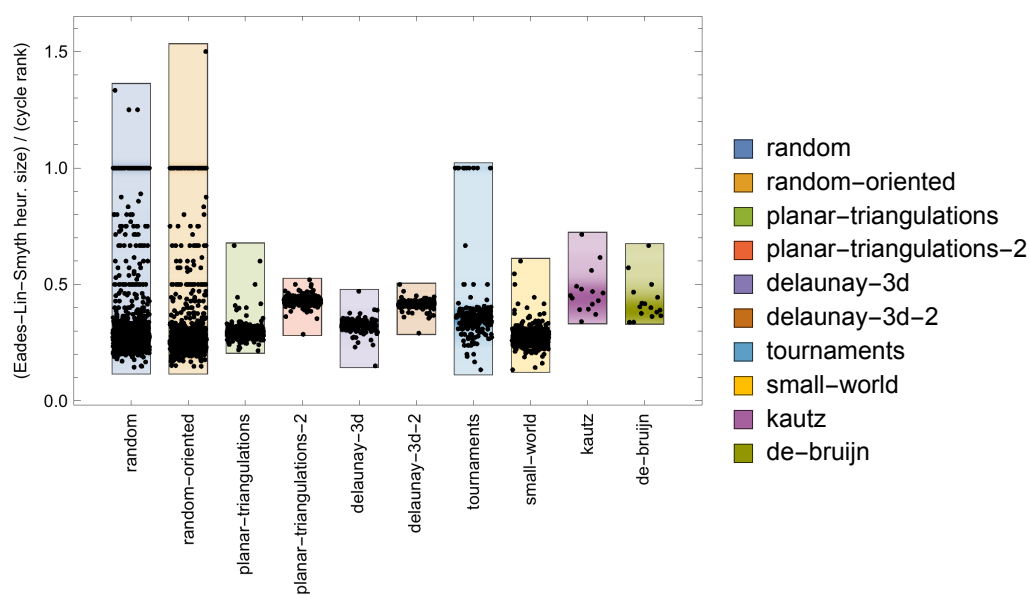
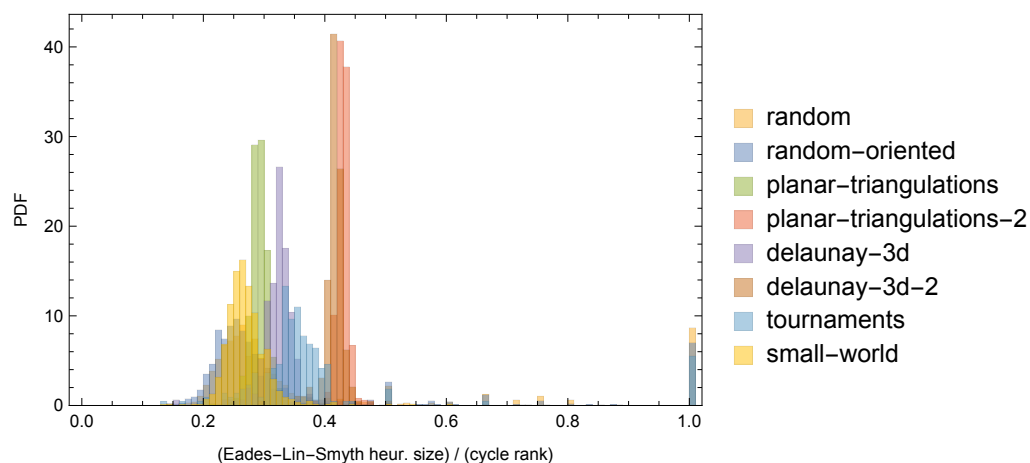


### Histograms of ELS FAS size / Min FAS size.





### Histograms of ELS FAS size / cycle rank.





## Histograms of Min FAS size / cycle rank.

