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CSC 375 – Voting Theory

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Project 3 Report

An Analysis of Multi-Winner Voting Systems

K-Borda

Chart, scatter chart

Description automatically generated

K-Approval

Chart, scatter chart

Description automatically generated

Greedy Chamberlin-Courant

Chart, scatter chart

Description automatically generated

Write a paragraph comparing the behavior of the three rules, and answering the question: Do the rules appear to behave as the diversity-focused, or excellence focused rules that we have claimed that they are? Why or why not?

K-Borda, K-Approval, and the Greedy Chamberlin-Courant algorithm range from excellence-focused to diversity-focused rules. K-Borda tended to produce the most condensed, Chamberlin-Courant tended to be the most spread out, and K-Approval tended to fall in the middle. These graphs showcased our prior expectations for what we considered the three focuses to be: K-Borda being condensed was excellence-focused, Chamberlin-Courant being spread out was diversity-focused, and K-Approval struck a good balance between excellence and diversity.