



Classroom notes: Real world examples of applications of vertex coloring and edge betweenness centrality

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Abstract. Examples of real world applications of mathematics are rare in undergraduate mathematics and statistics curricula. In this paper, we present applications of vertex coloring and edge betweenness centrality, subjects that appear in courses in graph theory and complex networks. To show students the relevance of these topics in a real world environment, we provide applications to existing networks.

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