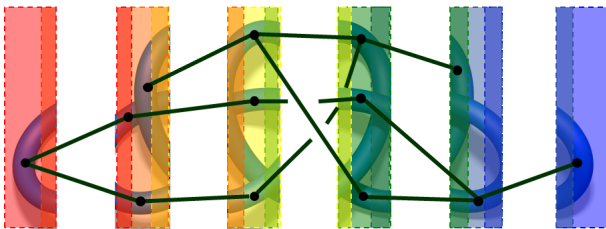
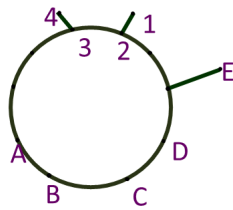
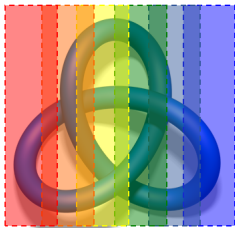


MSCS MESS

Department of Mathematics, Statistics, and Computer Science
St. Olaf College, Northfield, MN 55057
16 November 2018 | Volume 47, No. 10

Next Monday's Colloquium

Title: Introduction to TDA Mapper and filtration of Mapper graphs for point cloud datasets
Speaker: Wako Bungula
Time: 3:30 PM
Date: November 19
Place: RNS 310



About the talk: TDA Mapper is an algorithm that is used to visualize high dimensional datasets. TDA Mapper takes in data (usually a point cloud in a euclidean space) and outputs a graph (vertices and edges). In my talk, I will introduce TDA Mapper with examples, and I will talk about the theoretical motivation for TDA Mapper. Finally, I will talk about how DBSCAN clustering

gives filtration of Mapper graphs.

About the Speaker: I am a 6th year graduate student at the University of Iowa. I was introduced to TDA and TDA Mapper in my 3rd year of graduate school, and I have been studying the subject since. I have been working on two aspects of TDA Mapper: developing modified version of TDA Mapper and developing stability theorem of Mapper graphs for point cloud data. I hope to have my modified version of TDA Mapper algorithm available for students and researchers in the near future.

Oles Win MinneMUDAC Data Science Challenge!

The competition challenged teams to use data analysis to predict voter turnout in MN's eight congressional districts, with scoring based on presentations given and accuracy of predictions. Our department entered three teams in the MinneMUDAC Data Science Challenge, with all three placing in the top ten in the undergraduate division! Furthermore, Junior Varsity Stats won first place overall, and Model Citizens won Honorable Mention Prediction! **Junior Varsity Stats:** William Cheek, Ha Nguyen, MyKhe Nguyen, Josh Pelayo. **Model Citizens:** Abe Eyman Casey, Alex Son, Brodie Thiede, Jack Welsh. **Olaf Varsity MUDAC:** Abe Eyman Casey, Alex Son, Brodie Thiede, Jack Welsh.

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