VIPICS: Visualizing and Interacting with Paths in Configuration Spaces

Mathematics Computing Lab

Spring 2019 project

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- Checklist. By the end of February, you should have a basic understanding of the following:
 - how to use git and GitHub
 - how to code in C#
 - how to use Unity with the Oculus headset
 - algebraic topology at the undergraduate level
- Goals. By the end of February, we will:
 - understand what we want to do

By the end of March, we will:

- achieve primary goal
- define secondary goal based on primary goal

By the end of April, we will:

- achieve secondary goal
- create poster describing the semester's work
- Sources. Read these papers:
 - Carlsson (2009). Topology and data. (Sections 2.1, 2.3)
 - Topaz, Ziegelmeier, Halverson (2015). Topological Data Analysis of Biological Aggregation Models.