

An introduction to polyhedral topology

Luke Cooper (Nipissing University)
ldcooper877@community.nipissingu.ca

Abstract: Polyhedral Topology is well known to have important applications to computer science - specifically in analyzing so called, “big data”. This presentation will summarize my introductory study of Polyhedral Topology, following the work of Dr. John R. Stallings, in *Lectures on Polyhedral Topology*. Working in Euclidean space, a number of intuitive definitions will be addressed, as they inevitably lead to more general and applicable processes, such as refinements, triangulations, and precise approximations of complex objects.