Graduate Seminar

Speaker:

Dr. Hari Kunduri,
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Thursday, November 15, 2018
1:00 p.m., HH-3017

Variational Problems in Geometry

Abstract:

A classic problem in differential geometry is to find the curve of shortest length between two fixed points on a embedded surface in R^3. Such extremization problems are solved using the techniques of variational calculus. This is also closely tied to weak formulations of certain PDEs. I will give a brief survey of these techniques and discuss some applications in geometry.