1135-VN-1452 **Mili Shah*** (`mishah@loyola.edu`). *Calibrating Robotic Systems with Mathematics.*

Robotic systems use a variety of sensors in order to perform tasks that are assigned to them. In order to use the data collected from these sensors, they must be calibrated to a common coordinate frame. This talk will begin with an overview of the mathematical tools needed to setup this calibration problem and will conclude with previous and current research related to solving this problem. (Received September 22, 2017)