1128-15-286   **Hon Leung Lee*** (`hllee@uw.edu`). *Problems in Algebraic Vision.*
Reconstructing a three-dimensional world using two-dimensional images from multiple cameras is a fundamental problem in computer vision. We rewrite the existence of such reconstruction from two views as the existence of a common real solution of a bunch of linear equations and polynomial equations/inequalities. In this talk we discuss the recent progress of certifying the existence of such real solution. This is a joint work with Sameer Agarwal, Bernd Sturmfels and Rekha R. Thomas. (Received February 28, 2017)