

# Range Identification for Perspective Dynamic System with Single Homogeneous Observation

Lili Ma, YangQuan Chen and Kevin L. Moore  
CSOIS, Utah State University ([www.csois.usu.edu](http://www.csois.usu.edu))

- Nonlinear observer for perspective dynamic system;
- Range estimate using a single camera;
- Still works with a single homogeneous observation!  
(See the right picture)
- Performance may be compromised.
- Similarly robust as in the full observation case.

