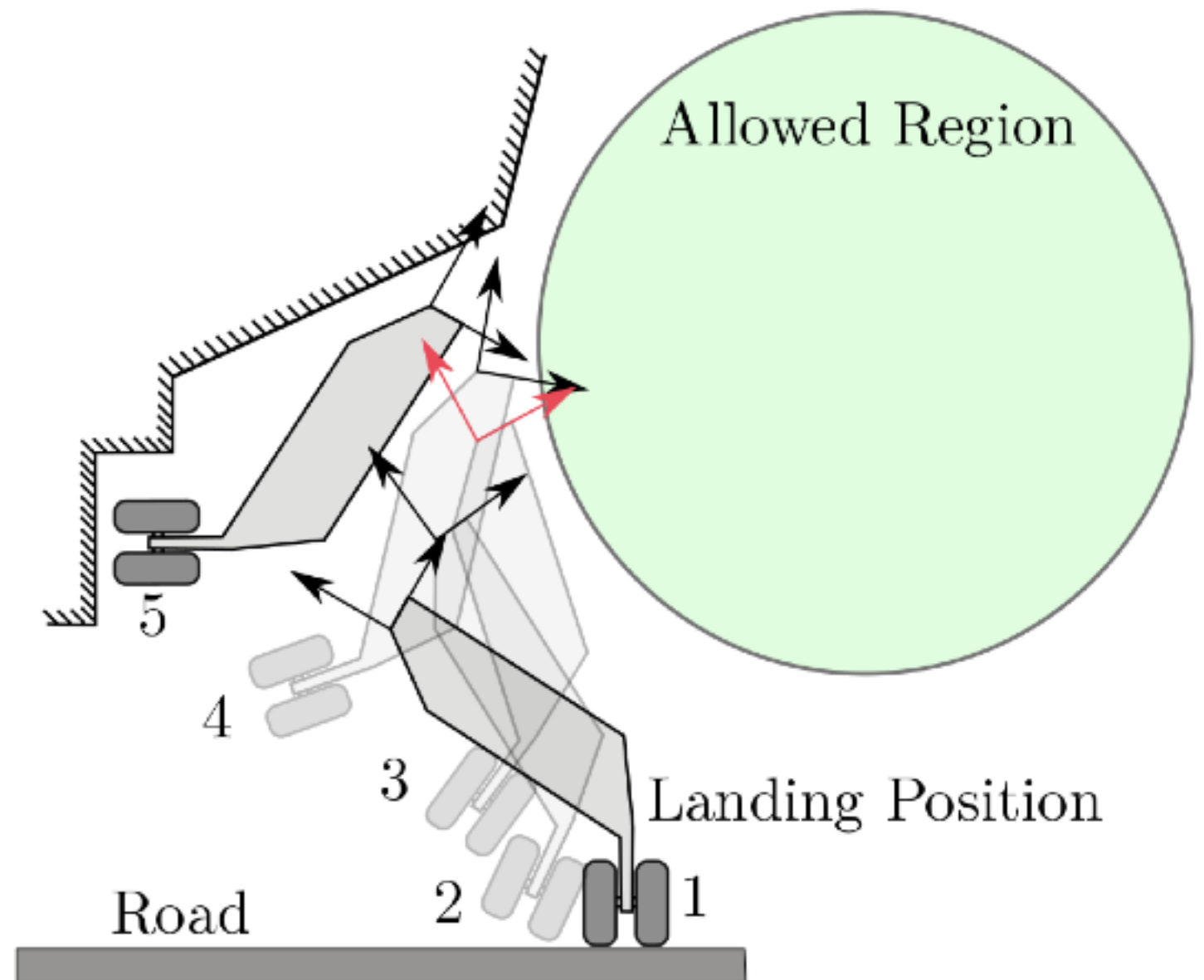# Example : Landing Gear

Synthesize a four-bar linkage such that,

- Mechanism passes through precision poses 1-2-4-5

- Closely Approximates third pose

- Fixed pivots desired to lie on or inside the allowed region.

Progressive Relaxation of Constraints

- Five position synthesis to see if exact and useful solution exists

- Relax third position and minimize its error function and check for useful solutions.

- Add non-linear inequality constraint for circle