

# Need of Generative Model

- Input Conditioning and Imputation requires capturing the underlying pattern
- Learning joint probability distribution of linkage parameters
- Generate Variational Inputs to exploit nonlinear nature of the problem

# Variational Input

- Common Approach is to change the input randomly within a tolerance range
  - Combinatorial Optimization (NP Hard)
- Informed Modifications on Input
  - Requires knowledge about the properties of coupler motions (or paths) of planar linkages.