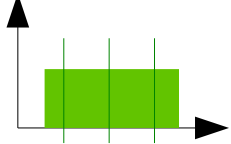


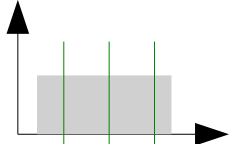
Step 1: Create and run samples

Uncertain parameters

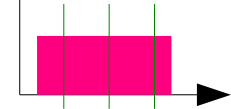
Number of agents



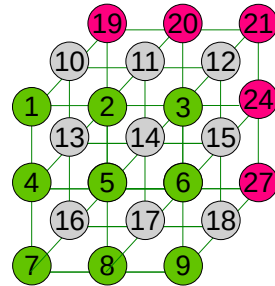
Send interval



Transmission power
(control)



Polynomial chaos
expansion (order = 2):
27 samples



For each sample:

Simulation run
(no repetition)

Quantities of interest (simulation output)

Dissemination time (all agents)

Dissemination time (only agents in information area)

Max. packet life time

Median packet life time

Min. packet life time

Number of agents (*control*)

Step 2: Construct polynomial chaos expansion and quantify uncertainties

Quantities of interest (simulation output)

Dissemination time (all agents)

Dissemination time (only agents in information area)

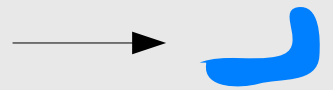
Max. packet life time

Median packet life time

Min. packet life time

Number of agents (*control*)

Polynomial chaos expansions



For each quantity of interest:

