

# Identifying influential pandemic regions using graph signal variation

October 26, 2022

- 1 Case 1: Single Perturbation,  $\kappa = 0.0001$**
- 2 Case 2: Single Perturbation,  $\kappa = 0.1$**
- 3 Case 3: Double Perturbation,  $\kappa = 0.0001$**
- 4 Case 4: Double Perturbation,  $\kappa = 0.1$**

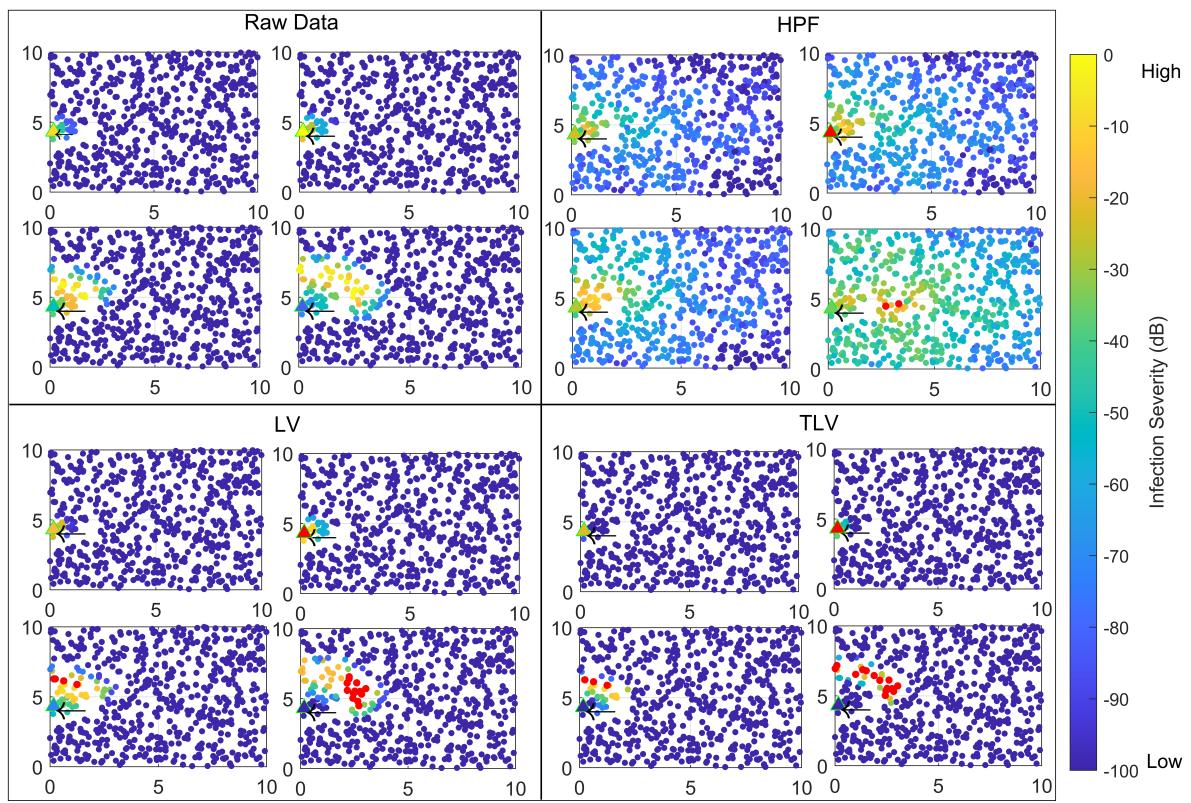


Figure 1: Case1: Illustration of Raw data, HPF, LV, and TLV

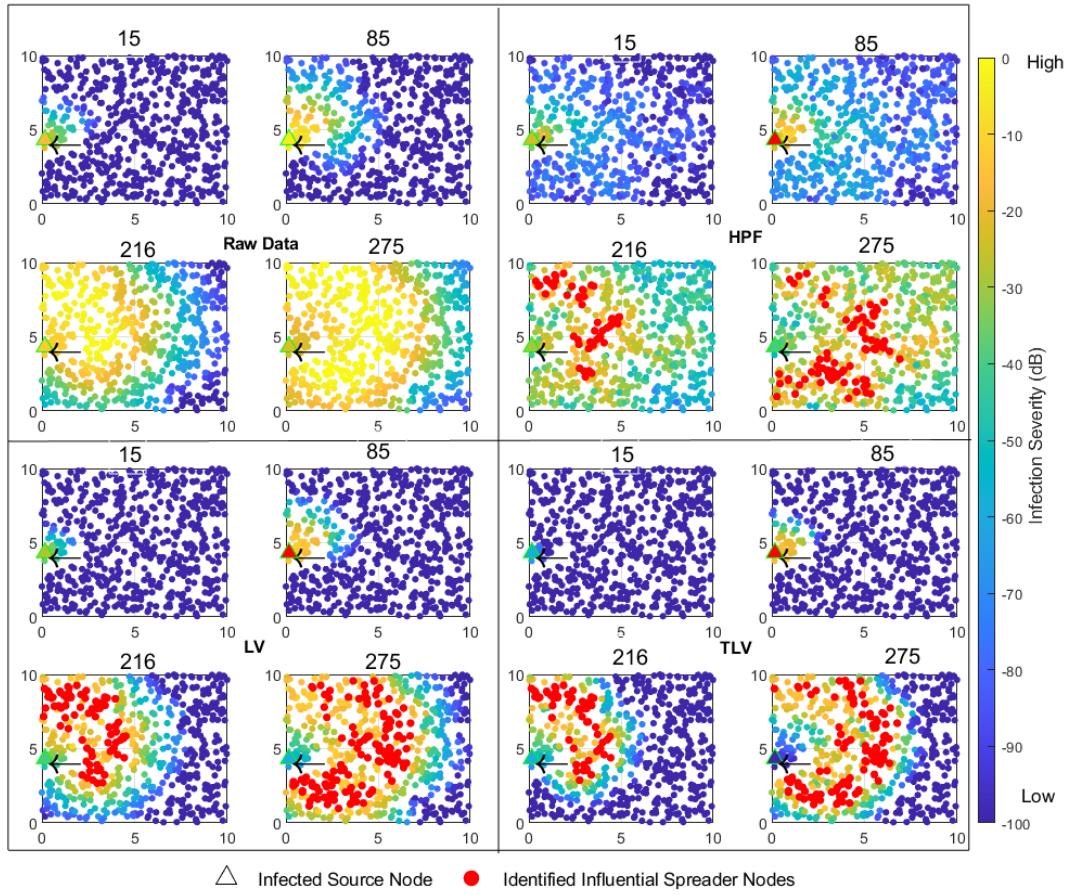


Figure 2: Case2: Illustration of Raw data, HPF, LV, and TLV

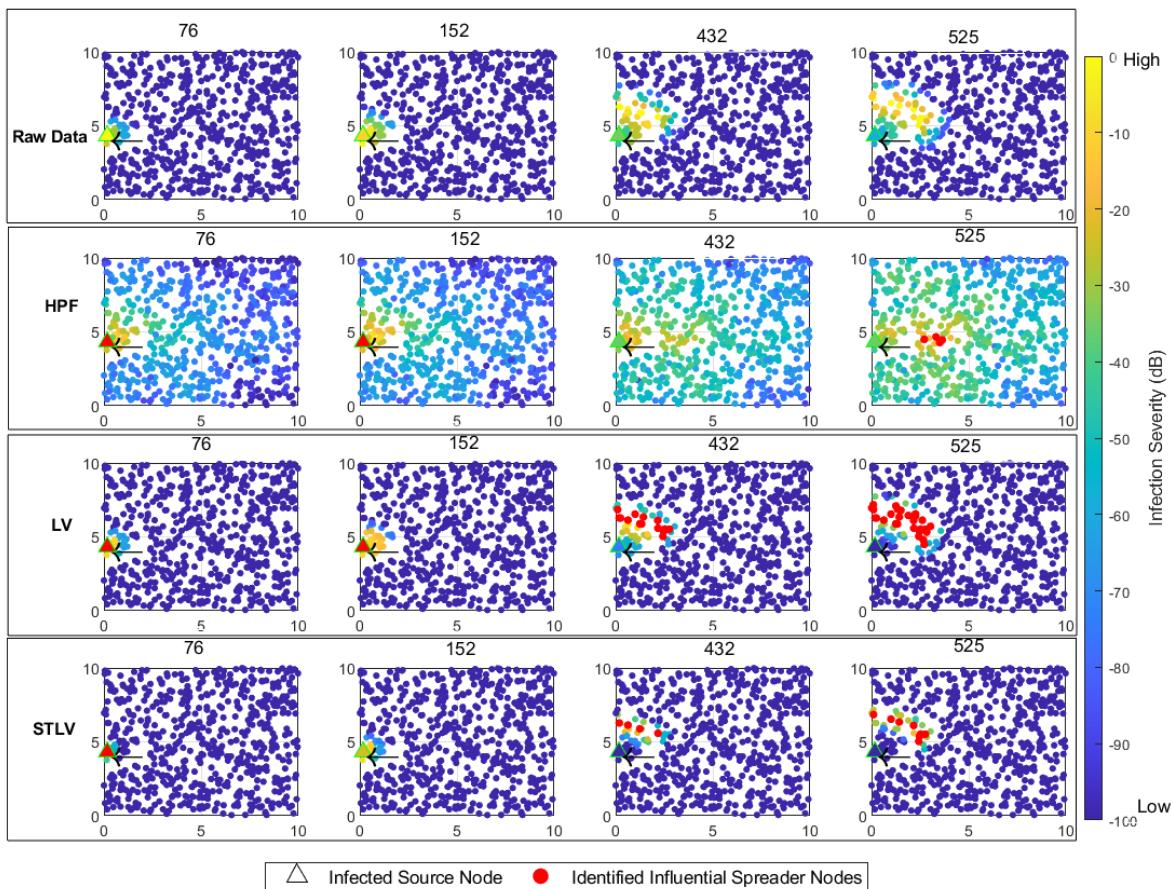


Figure 3: Case3: Illustration of Raw data, HPF, LV, and TLV

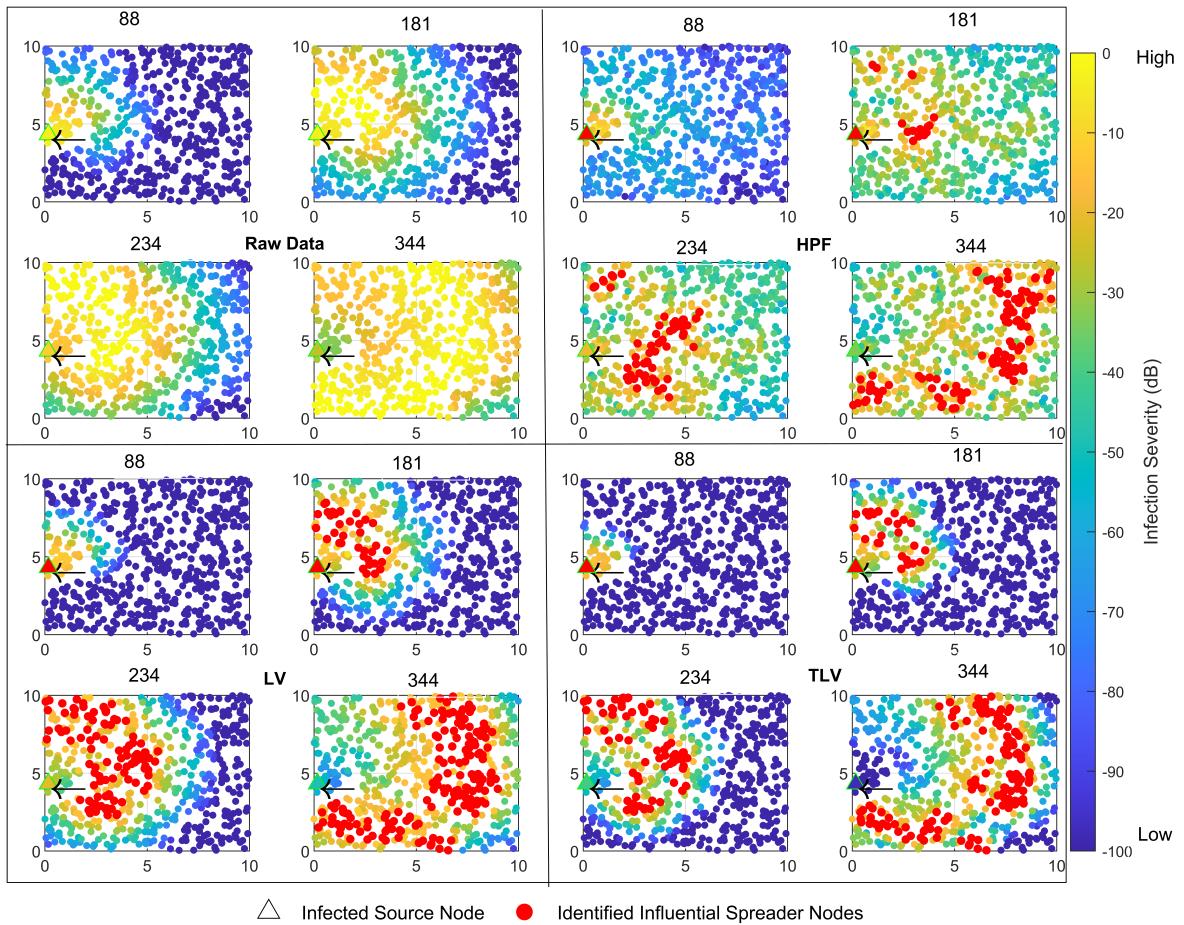


Figure 4: Case4: Illustration of Raw data, HPF, LV, and TLV