Both datasets are processed with 1000 epochs. For the Finland data, k = 5 seems to be the most accurate with the least entropy, and for the Joensuu data, k = 4 is the most accurate. The entropy for both sets increases when the k-values go above or below this threshold.

Finland

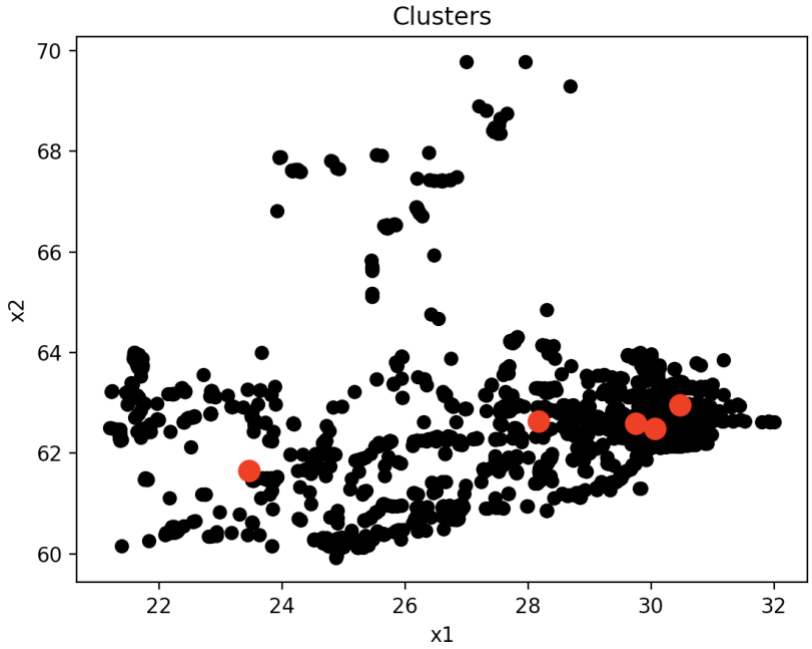
K = 4

(graph does not show up unfortunately ☹)

Centers: ['(29.8, 62.64)', '(23.4, 61.48)', '(26.26, 62.5)', '(27.72, 62.65)']

Mean clustering entropy: 1.09

K = 5

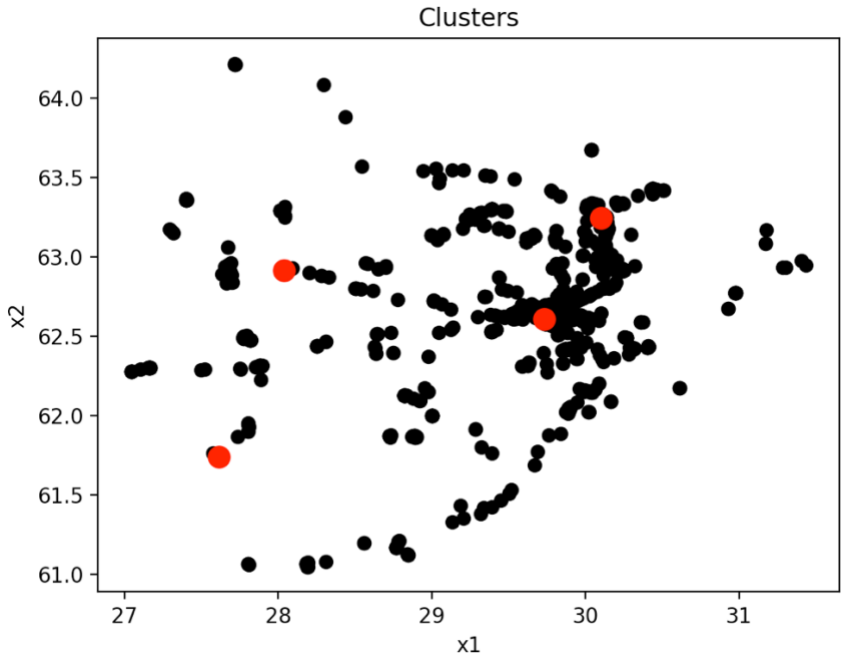


Centers: ['(29.75, 62.58)', '(28.17, 62.63)', '(30.06, 62.5)', '(30.46, 62.95)', '(23.45, 61.65)']

Mean clustering entropy: 1.07

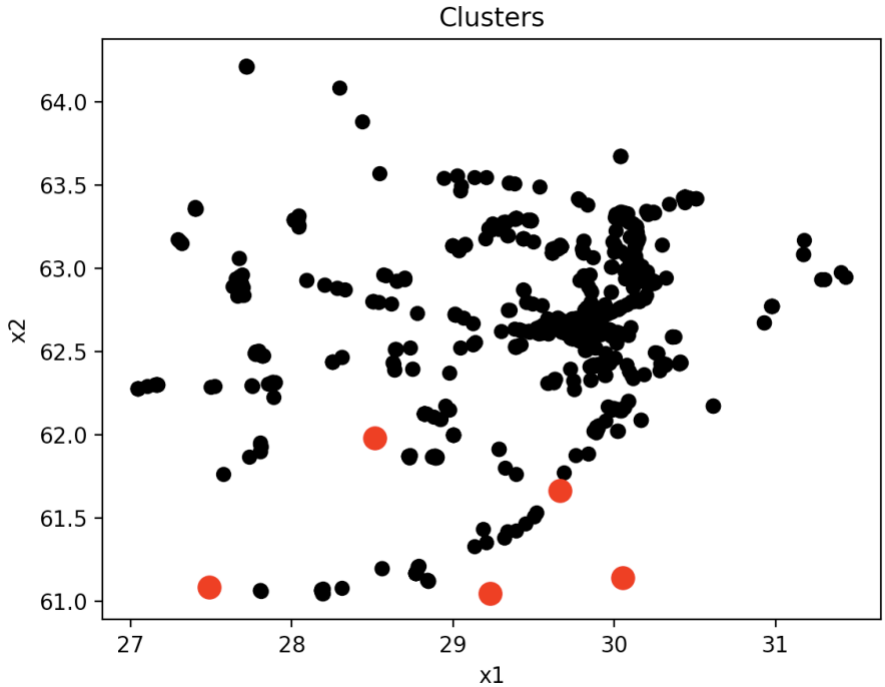
Joensuu

K = 4



Centers: ['(28.03, 62.9)', '(27.61, 61.74)', '(29.73, 62.6)', '(30.1, 63.24)']
Mean clustering entropy: 0.245

K = 5



Centers: ['(28.5, 61.98)', '(29.66, 61.66)', '(30.05, 61.14)', '(27.49, 61.08)', '(29.23, 61.04)']
Mean clustering entropy: 0.298