Beacon Interval Formula

Formula

The beacon interval is calculated based on network density:

Parameters

- n: Number of neighbors
- $D_{max} = 15$: Maximum density threshold
- I_{min}: Minimum beacon interval
- I_{max}: Maximum beacon interval

Equation

$$\rho = \min\left(1, \frac{n}{D_{max}}\right) \tag{1}$$

$$I = I_{min} + \rho \cdot (I_{max} - I_{min}) \tag{2}$$

Where:

- ρ: Density factor (0-1)
- I: Resulting beacon interval