Construction of Pazz. nbors via CDF

$$A(x) = \begin{cases} \frac{F_{x}(x)}{F_{x}(a)} & \text{if } x \leq a \\ \frac{\Lambda - F_{x}(x)}{\Lambda - F_{x}(a)} & \text{if } x \geq a \end{cases}$$

$$x, a \in \mathbb{R}$$

The choice of a elk can be a measure of location.

eq. Uniform distribution

$$F(x) = \begin{cases}
0 & \text{for } x > a \\
\frac{x-a}{b-a} & \text{for } a < x < b \\
1 & \text{for } x > b
\end{cases}$$

Uniform: mean: (a+b)/2 variance: (b-a)2/12

To get a fazzy number "close to M", we have:

$$A(x) = \begin{cases} 2F(x) & \text{if } x \leq \mu \\ \text{membersh: p fct.} & 2(1-F(x)) & \text{if } x > \mu \end{cases}$$
of fuzzy x



