Magnification Control in Relational Neural Gas

As demonstrated by Zador (1982), vector quantization techniques aiming for a minimization of the distortion error feature the inherent characteristic that the final prototype density does not exactly match the data density. However, arbitrary magnification can be achieved, among other techniques, by a Localized Learning strategy (Villmann et al., 2006).

In the talk, we will discuss Localized Learning in the context of Relational Neural Gas.