Normalize criteria values

##### This procedure standardizes each criteria using normalization functions. This procedures is needed to evaluate the distance to the ideal point of each census-block related to each action , and system . This procedure is called every cycle of decision. The information will define the vectors of criteria and will update their representation in a standardize scale using the procedure report “value function”.  This steps is critical to quantify relationships between condition of the attributes in the landscape (e.g., age, capacity, etc) and the perceived response by agents. Formally this procedure takes the following notation:

(3)

Where is the perceived magnitude of stimulus defined by the state of attribute in census-block at time , . Parameter refers to the constant fraction (ref). Function is often represented by a logarithmic function:

However, in the current version of this model, the function is implemented using a set of cutoff, such that

(4)

Where are canonical cut-off, that follow the Weber-Fechner progression {0.5,0.25 0.125,0.0625} for increasing functions and {0.937,0.875 0.725,0.5} for decreasing functions. Parameter represents the maximum value of the attribute, , which will set the range of the value function.

In the current version of the model, this procedure is called in the context of actions, which are called in the context of the census-block.