fuzzy-start

RETRIEVAL

fuzzy-set-with-label label

EVALUATION

fuzzy-evaluation x

PLOTTING

fuzzy-plot set

DEFUZZIFICATION

fuzzy-FOM

fuzzy-LOM

fuzzy-MOM

fuzzy-MeOM

fuzzy-COG

OPERATIONS WITH SETS

fuzzy-min (= fuzzy-and) *list-of-sets*

fuzzy-max (= fuzzy-or) list-of-sets

fuzzy-sum *list-of-sets*

fuzzy-prob-or *list-of-sets*

fuzzy-not set

fuzzy-truncate *set number*

fuzzy-prod *set number*

HEDGES

fuzzy-power *set number*

MEMORY

fuzzy-die

CREATION OF FUZZY SETS FROM SCRATCH

fuzzy-discrete-numeric-set $[[x_1 y_1] [x_2 y_2] ... [x_n y_n]]$ fuzzy-discrete-numeric-set-with-label $[[x_1 y_1] [x_2 y_2] ... [x_n y_n]]$

fuzzy-piecewise-linear-set $[[x_1 y_1] [x_2 y_2] ... [x_n y_n]]$ fuzzy-piecewise-linear-set-with-label $[[x_1 y_1] [x_2 y_2] ... [x_n y_n]]$

fuzzy-trapezoidal-set [a b c d e f height]
fuzzy-trapezoidal-set-with-label label [a b c d e f height]

fuzzy-logistic-set [x_0 a b [lower-limit upper-limit]] **fuzzy-logistic-set-with-label** [abel [x_0 a b [lower-limit upper-limit]]

fuzzy-gaussian-set [m s [lower-limit upper-limit]] **fuzzy-gaussian-set-with-label** [m s [lower-limit upper-limit]]

fuzzy-exponential-set [a b c [lower-limit upper-limit]] **fuzzy-exponential-set-with-label** [a b c [lower-limit upper-limit]]

fuzzy-interval-with-points-set [[[a b] v] [[$x_1 y_1$] [$x_2 y_2$] ... [$x_n y_n$]]] fuzzy-interval-with-points-set-with-label /b/ [[[a b] v] [[$x_1 y_1$]... [$x_n y_n$]]]

RULES

fuzzy-truncate-rule (= fuzzy-rule) list-of-2-items consequent-fuzzy-set fuzzy-prod-rule list-of-2-items consequent-fuzzy-set fuzzy-min-truncate-rule (= fuzzy-and-rule) list-of-2-item-lists consequent-fuzzy-set fuzzy-max-truncate-rule (= fuzzy-or-rule) list-of-2-item-lists consequent-fuzzy-set fuzzy-min-prod-rule list-of-2-item-lists consequent-fuzzy-set fuzzy-max-prod-rule list-of-2-item-lists consequent-fuzzy-set