

EVALUATION

fuzzy:evaluation-of set x

PLOTTING

fuzzy:plot set

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

DEFUZZIFICATION

fuzzy:FOM-of set

fuzzy:LOM-of set

fuzzy:MOM-of set

fuzzy:MeOM-of set

fuzzy:COG-of set

LABELS

fuzzy:set-with-label string

fuzzy:set-label-of set string

fuzzy:clear-label-of set

fuzzy:clear-label string

fuzzy:clear-all-labels

fuzzy:label-of set

fuzzy:has-label? set

fuzzy:label-exists? string

CREATION OF FUZZY SETS FROM SCRATCH

fuzzy:discrete-numeric-set $[[x_1 y_1] [x_2 y_2] \dots [x_n y_n]]$

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

fuzzy:piecewise-linear-set $[[x_1 y_1] [x_2 y_2] \dots [x_n y_n]]$

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

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 label $[x_0 a b [lower-limit upper-limit]]$

fuzzy:gaussian-set [m s [lower-limit upper-limit]]

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

fuzzy:exponential-set [a b c [lower-limit upper-limit]]

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

fuzzy:interval-with-points-set $[[[a b] v] [[x_1 y_1] [x_2 y_2] \dots [x_n y_n]]]$

fuzzy:interval-with-points-set-with-label label $[[[a b] v] [[x_1 y_1] \dots [x_n y_n]]]$

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