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List of Symbols

$I^X$ Set of all fuzzy subsets of $X$
Supp $A$ Support of fuzzy subset $A$
$I^X_{\text{fin}}$ Set of all finite fuzzy subsets of $X$
$\lor$ join
$\land$ meet
$A'$ Complement of $A$
$(X, C)$ convexity space
$C$ convexity
$a$ constant function whose value is ‘$a$’, anywhere
Co $(F)$ fuzzy convex hull of $F$
$x R y$ $x$ is related to $y$ under $R$
$\equiv$ equivalence relation
$[x]$ fuzzy $R$-equivalence class
$A \setminus B$ $A$ difference $B$ for fuzzy subsets $A, B$
Card $(A)$ Cardinality of $A$
$\epsilon$ Collection of independent sets
$\# A$ Number of elements in $A$
$h(A)$ Set of all fuzzy points depending on $A$
$d(A)$ Rank of $A$
$(X, I)$ Interval space on $X$
$I(a, b)$ fuzzy interval between $a$ and $b$
lin $(A)$ Linear hull of $A$
aff $(A)$ Affine hull of $A$
Pr $(A)$ Projective hull of $A$
$\mathcal{P}(X)$ set of all subsets of $X$