

LIST OF SYMBOLS

<u>Symbols</u>	<u>Meanings</u>
iff	if and only if
$<$	less than
\in	belongs to
\notin	does not belongs to
\leq	less than equal
$>$	greater than
\geq	greater than equal
\nless	not less than
\nless	not less than equal
\ngtr	not greater than
\ngtr	not greater than equal
Λ	index set
\forall	for all
\wedge	infimum

\vee	supremum
L	completely distributive
	lattice with an order reversing involution $'$
L^X	The family of all L -fuzzy sets on X
x_α	L -fuzzy point with support x and value $\alpha, \alpha \in L$
$Pt(L^X)$	The set of all fuzzy point of X
$A \cup B(x)$	$A(x) \vee B(x), \forall x \in X$
$A \cap B(x)$	$A(x) \wedge B(x), \forall x \in X$
$A \subseteq B$	iff $A(x) \leq B(x)$
\mathcal{A}, \mathcal{B}	L -covers
$\mathcal{A} \preceq \mathcal{B}$	\mathcal{A} refines \mathcal{B}
\mathcal{U}, \mathcal{G}	collection of L -covers
f^{\leftarrow}	L -fuzzy reverse mapping
f^{\rightarrow}	L -fuzzy mapping
nbhd	neighbourhood
int	Interior
cl	closure
$x_\alpha q A$	x_α quasi-coincident with A
$A \hat{q} B$	A quasi-coincident with B
$\mathcal{Q}(x_\alpha)$	family of all Q-nbhd at x_α
\preceq	refinement
$st(A, \mathcal{A})$	$\bigcup \{B : B \cap A = \underline{0}, B \in \mathcal{A}\}$
$st(x_\alpha, \mathcal{A})$	$\bigcup \{B : x_\alpha \in B, B \in \mathcal{A}\}$
$st(\mathcal{A})$	$\bigcup \{st(A, \mathcal{A}) : A \in \mathcal{A}\}$

C-TOP

The category of L -fuzzy topology with variable-basis
and L -continuous functions as morphisms