

List of basic symbols.

\cup	a sum of sets or a disjunction of relations,
\cap	an intersection of sets or a conjunction of relations,
\div	a difference of sets or of relations,
\in	inclusion of an element,
\subset	inclusion of a subset or of a subrelation,
\times	single Cartesian product of sets or relations,
\times	multiple Cartesian product of sets or relations,
$-$	a complement of a relation,
\vee	a logical disjunction (alternative),
\wedge	a logical conjunction,
\neg	logical negation,
\Rightarrow	logical implication,
\Leftrightarrow	logical equivalence (two-sided implication)
$\langle \rangle$	linearly ordered set or segment,
$\{ \}$	unordered set,
$\{S\}_i$	i -th set of input messages (i -th pattern)
s	realization of an input message,
$\{Z\}$	set of received signals,
z	realization of a received signal-set of decisions
$\{Y\}$	set of decisions,
y	a decision,
N, M	integers indicating the dimensionality of input signals,
R	a relation
$R_{\langle Z \rangle}$	projection of a relation R on the subfamily of sets $\langle Z \rangle$

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- \varkappa cardinal number of a set,
 U set of input signal values describing the state of retina,
 U_i set of the i -th input signal component values,
 $g(\mathbf{z}^*, \mathbf{z})$ distance between the vectors \mathbf{z}^* and \mathbf{z} .
 \emptyset empty relation
 $Q_{\langle U \rangle}$ trivial relation described on the set-family $\langle U \rangle$.

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A. General

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