Symbols

\( \epsilon, c \) Positive constants (with or without suffix)
\( n, k \) Positive integer constants (with or without suffix)
\( \ln x, (\ln_3 x) \) \( \log_e x, (\log_e \log_e \log_e x) \)
\( R \) Set of real numbers
\( I \) Set of integer numbers
\( (a_n) \) Sequence of real constant
\( \{X_n\} \) Sequence of random variable
\( F(x) = P(X \leq x) \) Distribution function of a random variable \( X \)
\( \alpha(F) \) \( \inf \{x : F(x) > 0\} \)
\( \omega(F) \) \( \sup \{x : F(x) < 1\} \)
\( M_n \) Maximum value among the sequence of r.v.’s \( X_1, X_2, \ldots, X_n \)
\( m_n \) Minimum value among the sequence of r.v.’s \( X_1, X_2, \ldots, X_n \)
\([x]\) The largest integer less than or equal to the positive number \( x \)
\( L(x) \) Slowly varying function of \( x \)
\( D(H) \) Domain of Attraction of the extreme limiting law \( H \)
\( DA(\alpha) \) Domain of Attraction of a Max-stable law with index \( \alpha \)
\( DPA(\alpha) \) Domain of Partial Attraction of a Max-semistable law with index \( \alpha \)
\( \limsup \) \( (\lim) \) Limit superior
\( \liminf \) \( (\lim) \) Limit inferior
\( \rightarrow_p \) Convergence in probability
\( \rightarrow_d \) Convergence in distribution
\( \rightarrow_{a.s.} \) almost sure convergence
\( X \overset{d}{=} Y \) \( X \) and \( Y \) have the same distribution