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## LIST OF SYMBOLS AND ABBREVIATIONS

### Symbols

$U(0,1)$	-	A continuous uniform distribution function which generates uniform random numbers in the interval 0 to 1
$   $	-	Absolute value
$[ , ]$	-	Closed interval
$\mathbb{R}$	-	Field of real numbers
iff	-	if and only if
RAN_MAX	-	Macro representing maximum integer value returned by the <i>rand</i> function
$\  \ $	-	Matrix
$\mathbb{R}^n$	-	n - Dimensional Euclidean space
$(0,1)$	-	Open interval from 0 to 1
Pr	-	Probability
$\prod$	-	Product
$\subset$	-	Proper subset of or Contained in
$\in$	-	Set membership
$\sum$	-	Summation

### Abbreviations

BCC	-	Banker, Charnes and Cooper
CCR	-	Charnes, Cooper and Rhodes
CCP	-	Chance Constrained Programming
CCFP	-	Chance Constrained Fractional Programming
CCDEA	-	Chance Constrained Data Envelopment Analysis

CCRSO	-	Chance Constrained Reliability Stochastic Optimization
DEA	-	Data Envelopment Analysis
DMU	-	Decision Making Unit
DMU <sub>o</sub>	-	A test DMU
FP	-	Fractional Programming
GA	-	Genetic Algorithm
LLT	-	Land, Lovell and Thore
LPP	-	Linear Programming Problem
OP	-	Olesen and Peterson
PSBs	-	Public Sector Bankings
RAP	-	Redundancy Allocation Problem
RCCP	-	Redundancy Chance Constrained Programming
RDCCP	-	Redundancy Dependent CCP
REV	-	Redundancy Expected Value
SFP	-	Stochastic Fractional Programming
SLP	-	Sequential Linear Programming
SP	-	Stochastic Programming
NLFP	-	Non-Linear Fractional Programming
NLSFP	-	Non-Linear Stochastic Fractional Programming
MOLFP	-	Multi-Objective Linear Fractional Programming
MONLSP	-	Multi-Objective Non-linear Stochastic Programming
MONLSFP	-	Multi-Objective Non-linear Stochastic Fractional Programming
MOSP	-	Multi-Objective Stochastic Programming