

# Wilcoxon Signed Ranks test.

KEEL non-parametric statistical module

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## 1 Detailed results for BHCVRP-act

### 1.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
BHCVRP	0.0	28.0	$\geq 0.2$	1

Table 1: Results obtained by the Wilcoxon test for algorithm BHCVRP-act

### 1.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
BHCVRP	[0.2289 , 93.37]	0

Table 2: Confidence intervals for algorithm BHCVRP-act ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
BHCVRP	[0.2289 , 93.37]	0

Table 3: Confidence intervals for algorithm BHCVRP-act ( $\alpha=0.95$ )

## 2 Detailed results for BHCVRP

### 2.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
BHCVRP-act	28.0	0.0	$\geq 0.2$	0.014248

Table 4: Results obtained by the Wilcoxon test for algorithm BHCVRP

### 2.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
BHCVRP-act	[-93.37 , -0.2289]	0

Table 5: Confidence intervals for algorithm BHCVRP ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
BHCVRP-act	[-93.37 , -0.2289]	0

Table 6: Confidence intervals for algorithm BHCVRP ( $\alpha=0.95$ )