

# Wilcoxon Signed Ranks test.

KEEL non-parametric statistical module

September 4, 2024

## 1 Detailed results for BHCVRP-act

### 1.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
BHCVRP	4.0	24.0	$\geq 0.2$	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	[-12.42 , 390.02]	0

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

$\alpha=0.95$	Confidence interval	Exact confidence
BHCVRP	[-12.42 , 390.02]	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	24.0	4.0	$\geq 0.2$	0.075927

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	[-390.02 , 12.42]	0

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

$\alpha=0.95$	Confidence interval	Exact confidence
BHCVRP-act	[-390.02 , 12.42]	0

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