BrcBfs-DPOP: Implementation Results

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Outline

Graphical Results

One-way ANOVA with post-hoc Tukey HSD Test Results

Node vs Execution Time

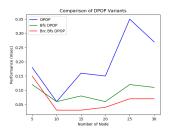


Figure: Node vs Execution Time

Density vs Execution Time

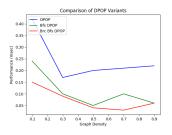


Figure: Density vs Execution Time

Domain Size vs Execution Time

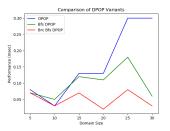


Figure: Domain Size vs Execution Time

Treatment Data

DPOP	Bfs-DPOP	BrcBfs-DPOP	
0.18	0.12	0.15	
0.06	0.06	0.05	
0.16	0.08	0.03	
0.15	0.06	0.04	
0.35	0.12	0.08	
0.27	0.11	0.07	

Descriptive statistics

$Treatment \to DPOP$		Bfs-DPOP	BrcBfsDPOP	Pooled Total
observation of N	6	6	6	18
sum ∑x	1.1700	0.5500	0.4200	2.1400
mean	0.1950	0.0917	0.0700	0.1189
sum of squares	0.2795	0.0545	0.0388	0.3728
sample variance	0.0103	0.0008	0.0019	0.0070
sample std. dev	0.1013	0.0286	0.0434	0.0834
std. dev. of mean	0.0414	0.0117	0.0177	0.0197

Tukey HSD results

treatments pair	Tukey HSD Q statistic	Tukey HSD p-value	Tukey HSD inferfence	Conclusion
DPOP vs Bfs-DPOP	3.8500	0.0393262	*p<0.05	significant
DPOP vs BrcBfs-DPOP	4.6573	0.0128342	*p<0.05	significant
Bfs-DPOP vs BrcBfs-DPOP	0.8073	0.8263902	insignificant	insignificant