TABLE I Area and wire length comparison on MCNC benchmark with various algorithms when α =0.5 and β =0.5

Performance measures	apte		xerox		hp		ami33				
	Area(mm ²)	WL(mm)									
MCNC benchmark											
RL(ICCD2020)	47.08	403	20.42	633	9.21	195	1.24	69	38.65	1724	
BCSA	48.05	474.62	20.42	385.21	9.25	157.07	1.23	53.55	38.1	705.20	
ISSAA	48.47	408.47	20.42	387.64	9.40	153.05	1.26	49.28	37.76	824.49	
VOAS	47.05	246	20.45	379.6	9.46	149.8	1.22	59.5	37.82	667	
Fast-SA	50.3	541.43	20.41	421.15	9.6	214.35	1.29	59.96	40.36	816.51	
DPSO	47.31	263	20.2	477	9.5	136	1.28	69	38.8	880	
ESA	49.38	205.54	20.54	621.05	9.36	510.24	1.25	108.5	36.73	1371	
Genetic Algorithm	46.9	191	20.2	500	9.85	68.3	1.29	46.2	39.5	912	
O-tree	51.9	321	20.4	381	9.5	153	1.28	51	39.6	689	
Enhanced O-tree	52.0	321	20.4	381	9.4	152	1.30	52	39.9	703	
TCG	48.5	378	20.4	385	9.5	152	1.24	50	38.2	663	
CS	48.5	380	20.4	381	9.6	149	1.25	48.1	38.2	690	

TABLE II
AREA AND WIRE LENGTH COMPARISON ON GCRS BENCHMARK WITH VARIOUS ALGORITHMS. BETTER RESULTS ARE EMPHASIZED IN BOLD.

Performance measures	n100				n200		n300				
	Area(×10 ⁵)	WL(×10 ⁵)	RT(s)	Area(×10 ⁵)	WL(×10 ⁵)	RT(s)	Area(×10 ⁵)	WL(×10 ⁵)	RT(s)		
GSRC benchmark											
RL	1.95	1.55	389.4	2.15	3.48	784.9	3.40	5.25	3766.9		
SA	1.97	1.54	396.2	2.01	3.34	1101.9	3.29	5.44	2062.3		
WL wire length RT run time											

WL wire length, RT run time

Z. He et al., "Learn to Floorplan through Acquisition of Effective Local Search Heuristics," 2020 IEEE 38th International Conference on Computer Design (ICCD), 2020, pp. 324-331, doi: 10.1109/ICCD50377.2020.00061.