On the Wind Farm Cable Routing Problem Optimization via Path-Relinking Metaheuristic $^{\rm 1}$

 $[\]overline{\ \ ^{1}\text{XIII Latin and American Algorithms, Graphs and Optimization Symposium (LAGOS 2025)}$

ID	Α	В	$\overline{\mathbf{C}}$	D	ID	Α	В	$\overline{\mathbf{C}}$	D	ID	Α	В	$\overline{\mathbf{C}}$	D	ID	Α	В	$\overline{\mathbf{C}}$	D
						S	ma	ll i	nsta	inces	3								
1	0	1	0	0	23	10	10	0	0	45	6	0	0	0	67	0	0	0	1
2	0	0	0	3	24	10	10	0	0	46	0	0	0	1	68	0	0	0	1
3	0	0	0	8	25	7	5	0	0	47	0	0	0	1	69	0	0	0	5
4	2	7	0	0	26	0	0	0	1	48	0	1	0	0	70	0	0	0	1
5	1	1	0	0	27	10	0	0	0	49	1	0	0	0	71	0	7	0	0
6	0	1	0	0	28	0	0	0	8	50	0	0	0	3	72	0	0	0	7
7	0	0	6	0	29	0	0	0	1	51	4	0	0	0	73	0	0	4	10
8	0	0	2	10	30	0	1	0	0	52	1	3	0	0	74	0	0	0	1
9	0	0	3	9	31	0	0	0	1	53	10	0	0	0	75	10	10	10	10
10	0	5	0	0	32	0	0	0	1	54	5	9	0	0	76	1	0	0	0
11	4	0	0	0	33	0	0	0	3	55	2	3	0	0	77	0	0	0	1
12	9	3	0	0	34	0	0	0	2	56	0	1	0	0	78	1	10	0	3
13	0	0	0	3	35	0	0	0	1	57	0	1	0	0	79	10	1	0	0
14	1	0	0	0	36	0	0	10	10	58	0	1	0	0	80	0	0	0	2
15	0	0	0	1	37	0	0	0	1	59	4	8	0	0	81	0	3	0	0
16	1	0	0	0	38	0	0	0	1	60	1	0	0	0	82	0	0	0	2
17	0	2	0	10	39	10	0	0	7	61	0	0	0	3	83	3	0	0	0
18	0	1	0	0	40	2	2	0	0	62	0	0	10	9	84	2	1	0	0
19	0	0	0	1	41	0	0	2	9	63	7	0	0	5	85	0	0	0	1
20	0	1	0	0	42	10	0	0	0	64	10	10	10	10					
21	10	5	0	2	43	0	0	0	1	65	9	0	10	10					
22	1	0	0	0	44	0	0	1	10	66	1	0	0	0					
						M	edi	um	ins	tance	es								
86	0	1	0	0	105	0	0	5	1	124	0	0	0	1	143	0	0	0	1
87	0	0	0	2	106	1	0	0	0	125	0	0	0	1	144	5	10	0	0
88	0	1	0	0	107	0	0	0	1	126	0	1	0	0	145	0	0	0	1
89	0	0	0	2	108	0	3	0	0	127	0	1	0	0	146	0	0	4	10
90	0	0	4	6	109	0	0	1	6	128	0	4	0	0	147	3	0	0	0
91	0	0	0	1	110	0	0	0	1	129	0	1	0	0	148	2	4	0	10
92	0	0	0	1	111	0	0	0	1	130	0	0	0	1	149	0	1	0	0
93	0	0	0	4	112	0	1	0	0	131	0	0	0	1	150	0	0	0	1
94	4	0	0	0	113	0	1	0	0	132	0	0	0	2	151	0	0	0	8
95	0	0	0	4	114	0	0	8	10	133	0	1	0	0	152	0	5	0	0
96	0	0	0	1	115	0	4	0	0	134	0	2	0	0	153	0	0	0	9
97	0	0	0	2	116	0	6	0	0	135	0	5	0	0	154	0	0	0	3
98	0	0	0	5	117	0	0	0	10	136	1	0	0	0	155	10	10	10	10
99	1	8	10	7	118	0	0	0	2	137	0	0	0	1	156	0	0	10	10
100	0	0	0	1	119	0	10	10	10	138	0	0	0	1	157	0	0	10	8
101	0	1	0	0	120	0	0	0	1	139	0	0	0	4	158	0	0	1	9
102	0	0	0	2	121	0	0	0	3	140	0	1	0	0	159	0	0	0	3
103	0	0	0	3	122	0	1	0	0	141	0	1	0	0	160	1	0	0	0
104	0	0	0	5	123	0	0	6	9	142	0	1	0	0					
						L	arg	ge i		ances	3								
161	0	0	0	3	171	0	0	0	3	181	0	0	0	1	191	0	0	0	1
162	0	0	0	10	172	0	2	4	9	182	0	0	4	10		0	0	7	2
163	0	0	0	10	173	0	0	2	4	183	0	0	5	10	193	0	0	0	2
164	0	0	0	3	174	0	0	0	9	184	0	0	0	10	194	0	0	0	10
165	0	0	0	10	175	0	0	0	3	185	0	0	0	10	195	0	0	0	2
166	0	0	1	4	176	0	0	1	10	186	0	0	1	10	196	0	0	6	10
167	0	0	6	8	177	0	0	4	10	187	0	2	0	0	197	0	0	6	10
168	0	0	0	6	178	0	0	0	10	188	0	0	0	7	198	0	0	7	10
169	0	0	0	7	179	0	0	0	8	189	1	0	0	0	199	0	0	1	10
170	0	0	0	8	180	0	0	0	2	190	0	0	0	8	200	0	0	0	7

Table 1: Number of executions for which the algorithms produced the best-found solution; A=PR5; B=PR6; C=VNS; D=MAHM