

Table 1: Detailed results for new Type I instances

Instance	GVNS			
	Best	Avg.	Worst	Time
MDPI1_1500	136.26	135.65	135.19	117.73
MDPI2_1500	138.00	136.71	134.79	397.15
MDPI3_1500	138.91	138.32	137.94	471.60
MDPI4_1500	139.81	139.21	138.34	141.11
MDPI5_1500	136.47	136.20	135.76	362.80
MDPI6_1500	136.22	135.13	133.76	283.58
MDPI7_1500	137.65	136.84	135.48	185.13
MDPI8_1500	138.02	137.58	136.50	222.33
MDPI9_1500	136.30	135.25	132.85	325.65
MDPI10_1500	140.33	139.80	138.95	226.43
Average	137.80	137.07	135.96	273.35
MDPI1_2000	158.03	157.17	156.67	240.74
MDPI2_2000	162.91	162.34	161.50	401.78
MDPI3_2000	158.98	157.81	156.77	251.86
MDPI4_2000	159.14	158.46	157.75	249.16
MDPI5_2000	156.11	155.38	154.03	314.34
MDPI6_2000	161.61	160.29	159.04	485.13
MDPI7_2000	157.58	157.13	156.52	303.16
MDPI8_2000	161.43	160.02	158.94	367.14
MDPI9_2000	159.15	158.15	157.37	533.79
MDPI10_2000	160.90	159.77	158.92	224.99
Average	159.58	158.65	157.75	337.21

Table 2: Detailed results for new Type II instances

Instance	GVNS			
	Best	Avg.	Worst	Time
MDPII1_1500	181.67	181.08	180.17	202.58
MDPII2_1500	185.48	185.01	183.61	331.15
MDPII3_1500	181.55	180.57	179.81	264.69
MDPII4_1500	184.91	184.34	183.48	113.97
MDPII5_1500	190.15	189.76	187.72	195.12
MDPII6_1500	183.14	182.32	181.60	107.77
MDPII7_1500	179.34	178.34	177.25	244.34
MDPII8_1500	186.60	185.63	183.94	219.73
MDPII9_1500	181.43	180.39	179.43	303.44
MDPII10_1500	182.70	181.98	181.62	385.14
Average	183.70	182.94	181.86	236.79
MDPII1_2000	208.85	208.19	207.29	303.51
MDPII2_2000	218.19	217.53	216.80	210.86
MDPII3_2000	209.57	208.55	207.32	184.25
MDPII4_2000	211.99	211.30	210.16	370.77
MDPII5_2000	215.33	214.39	213.84	364.76
MDPII6_2000	210.61	208.96	207.35	371.52
MDPII7_2000	209.65	207.50	204.89	186.52
MDPII8_2000	212.43	211.23	209.90	548.82
MDPII9_2000	214.61	213.64	212.74	302.15
MDPII10_2000	210.06	208.76	207.42	327.43
Average	212.13	211.01	209.77	317.06