

TABLE I. Comparison of task success rates (%) across four benchmark scenarios with varying pedestrian numbers (5–30). The task success rate represents the proportion of successfully completed following tasks under different pedestrian numbers in the benchmark scenarios. **Bold** indicates the best result, while underlined marks the second-best.

Method	Circular						Crowd						Parallel						Perpendicular					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
Wang’s [18]	43.75	16.25	6.25	2.50	3.75	11.25	<u>85.00</u>	37.50	30.00	13.75	0.00	0.00	<u>95.00</u>	<u>95.00</u>	<u>90.00</u>	75.00	70.00	40.00	<u>83.75</u>	38.75	17.50	10.00	3.75	0.00
Vu’s [22]	67.50	50.00	21.25	23.75	<u>23.75</u>	<u>20.00</u>	78.75	57.50	25.00	13.75	16.25	2.50	86.25	73.75	61.25	62.50	35.00	22.50	73.75	32.50	22.50	12.50	8.75	10.00
RDA-Traj [29]	<u>77.50</u>	<u>57.50</u>	<u>35.00</u>	35.00	22.50	12.50	82.50	82.50	<u>57.50</u>	55.50	35.00	35.00	<u>95.00</u>	<u>95.00</u>	82.50	<u>85.00</u>	<u>72.50</u>	<u>77.50</u>	82.50	<u>72.50</u>	<u>47.50</u>	<u>42.50</u>	32.50	25.00
Ours	83.62	64.34	49.45	<u>33.68</u>	47.39	37.43	93.75	<u>72.50</u>	61.25	<u>42.50</u>	<u>32.50</u>	<u>12.50</u>	100.00	98.75	98.75	90.00	92.50	85.00	90.00	78.75	65.00	56.25	<u>31.25</u>	<u>17.50</u>