

Dynamic graphical model approach to infer online timeliness of public buses

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Introduction	Models	Horizontal Markov chain results	Conclusions
Bus delay prediction problem	Experimental results	Vertical Markov chain results	Contributions
Dataset		2-dim. Markov chain results	References

		unique_stop_ids	total_stops	visits_per_stop
route_id	direction			
SL5	Outbound	12	814194	67849.500000
	Inbound	13	872944	67149.538462
111	Inbound	12	777438	64786.500000
SL1	Outbound	7	448292	64041.714286
31	Outbound	5	304750	60950.000000
	Inbound	5	300727	60145.400000
SL2	Outbound	6	345890	57648.333333
	Inbound	6	335191	55865.166667
111	Outbound	13	718718	55286.000000
23	Inbound	10	549635	54963.500000
SL1	Inbound	13	709980	54613.846154
01	Outbound	9	488393	54265.888889
	Inbound	9	472691	52521.222222
39	Inbound	11	561718	51065.272727
28	Inbound	11	552235	50203.181818
39	Outbound	10	496903	49690.300000
743	Outbound	11	544599	49509.000000
77	Outbound	11	538967	48997.000000
	Inbound	11	536599	48781.727273
23	Outbound	12	548555	45712.916667

		stop_sequence
stop_id		
110		1.0
67		2.0
72		3.0
75		4.0
79		5.0
187		6.0
59		7.0
62		8.0
64		9.0

