Branching stochastic processes as models of Covid-19 epidemic development

China - 20201214

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Abstract

The results presented here are obtained using the methologi proposed in the paper https://arxiv.org/abs/2004.14838 for the country China. The data comes from European Centre for Disease Prevention and Control available at https://opendata.ecdc.europa.eu/covid19/casedistribution/csv.

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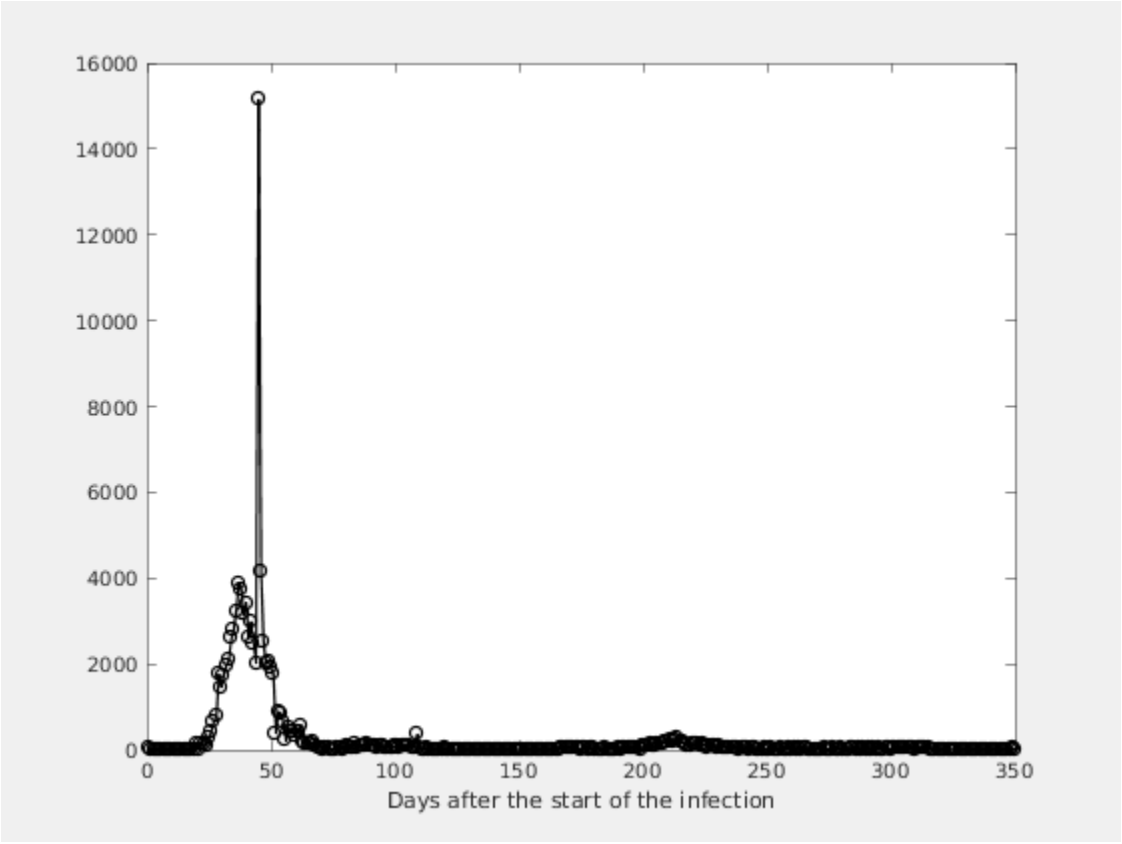
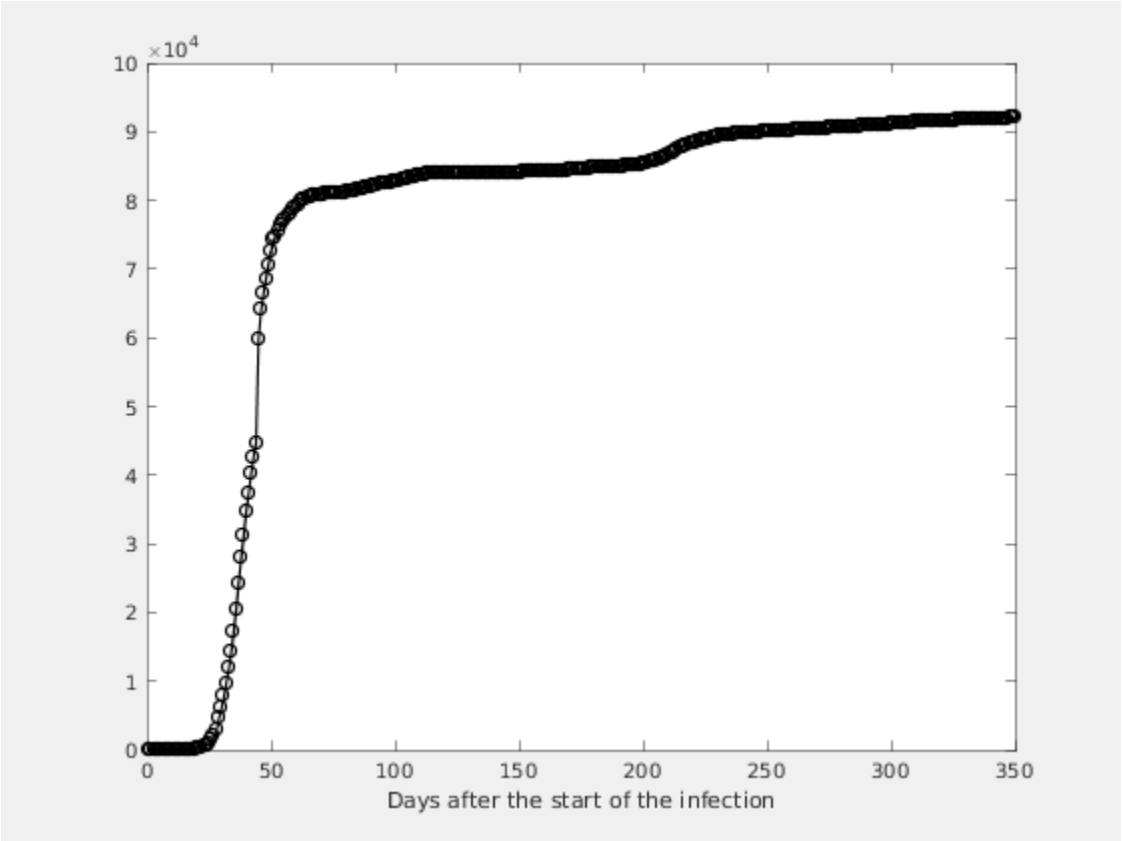


Figure 1.2. Number of the total registered cases



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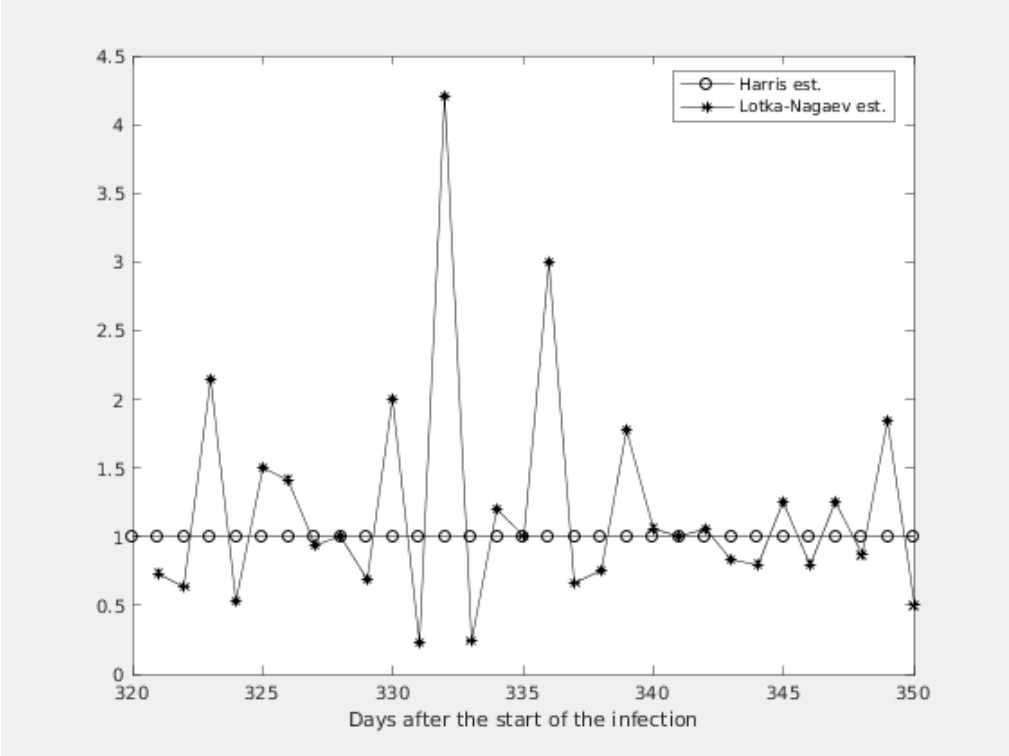

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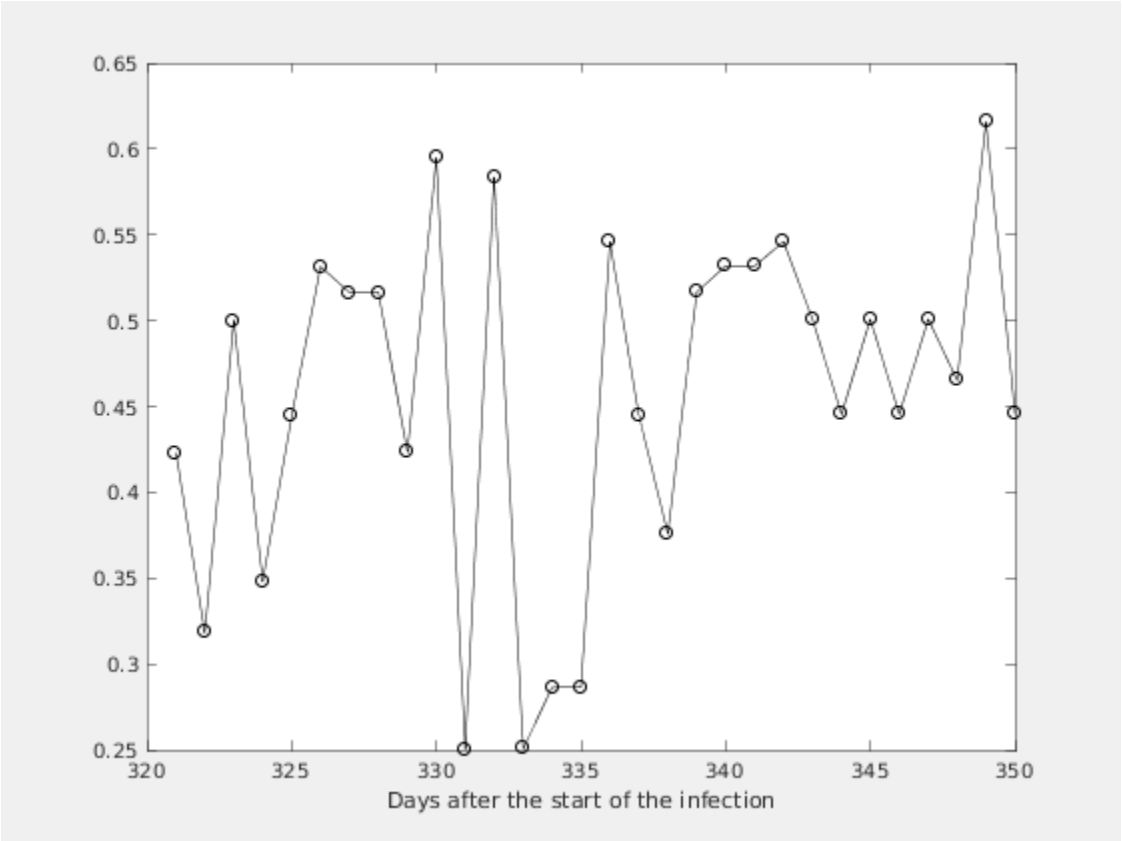

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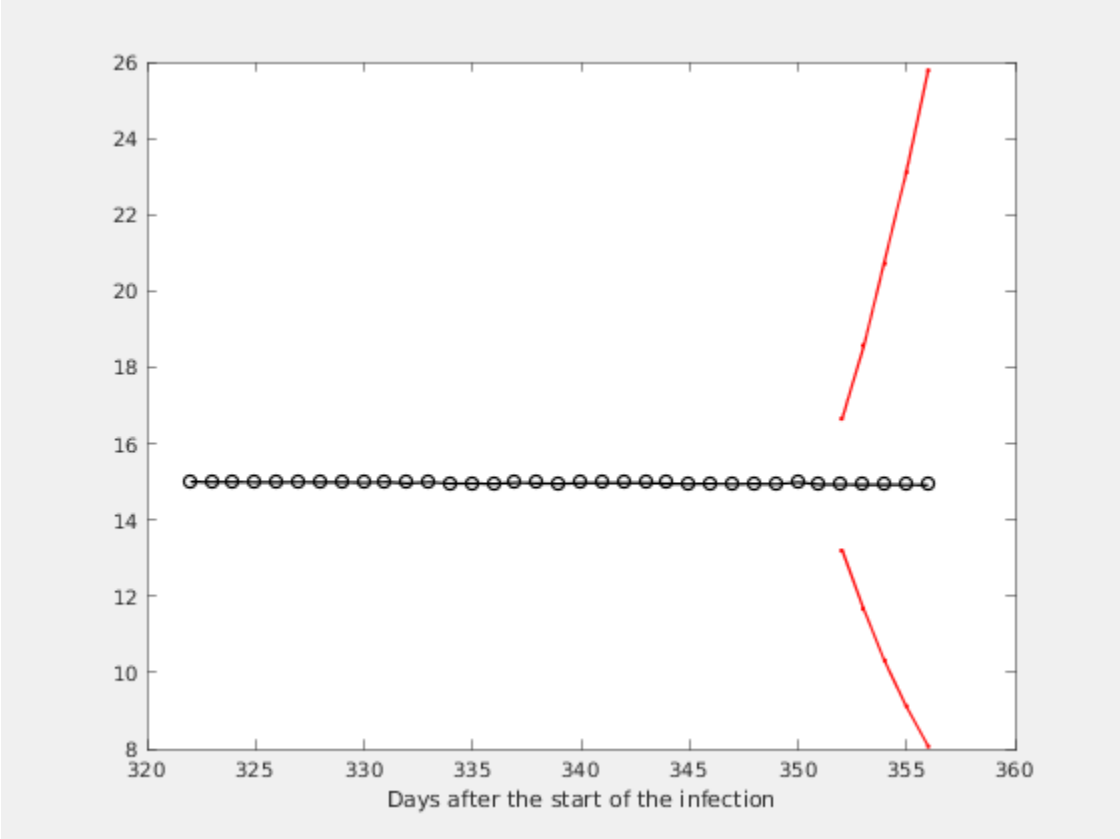

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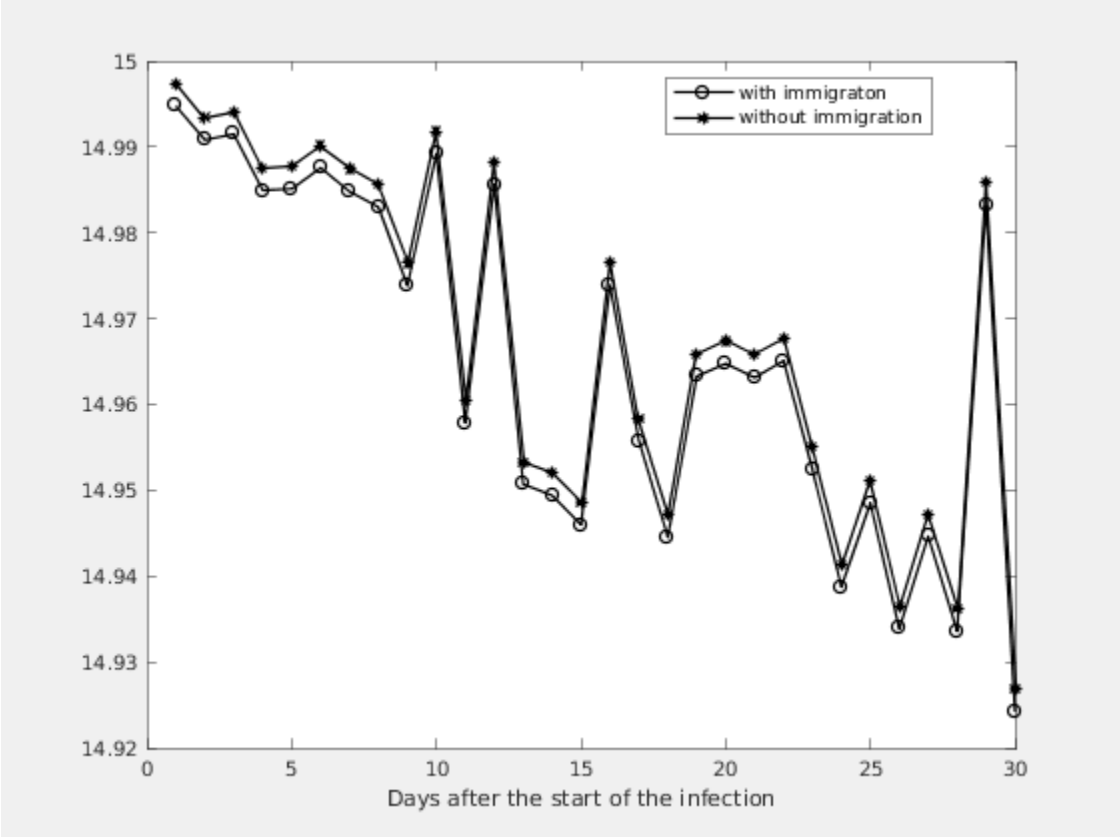

Estimation of the model parameters.

k	m	ci	alpha	M1	A1
4	0.9998	0.8831 - 1.1166	0.4454	15	15
3	0.9999	0.8833 - 1.1165	0.5008	15	15
2	0.9998	0.8834 - 1.1163	0.4455	15	15
1	1.0000	0.8837 - 1.1162	0.5009	15	15
0	0.9998	0.8838 - 1.1159	0.4653	15	15