

Branching stochastic processes as models of Covid-19 epidemic development

Myanmar_Burma - week 53

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Abstract

The results presented here are obtained using the methodology proposed in the paper <https://arxiv.org/abs/2004.14838> for the country Myanmar_Burma. 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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Chapter 1. Observed Infection data

Figure 1.1. Number of the weekly reported laboratory-confirmed cases

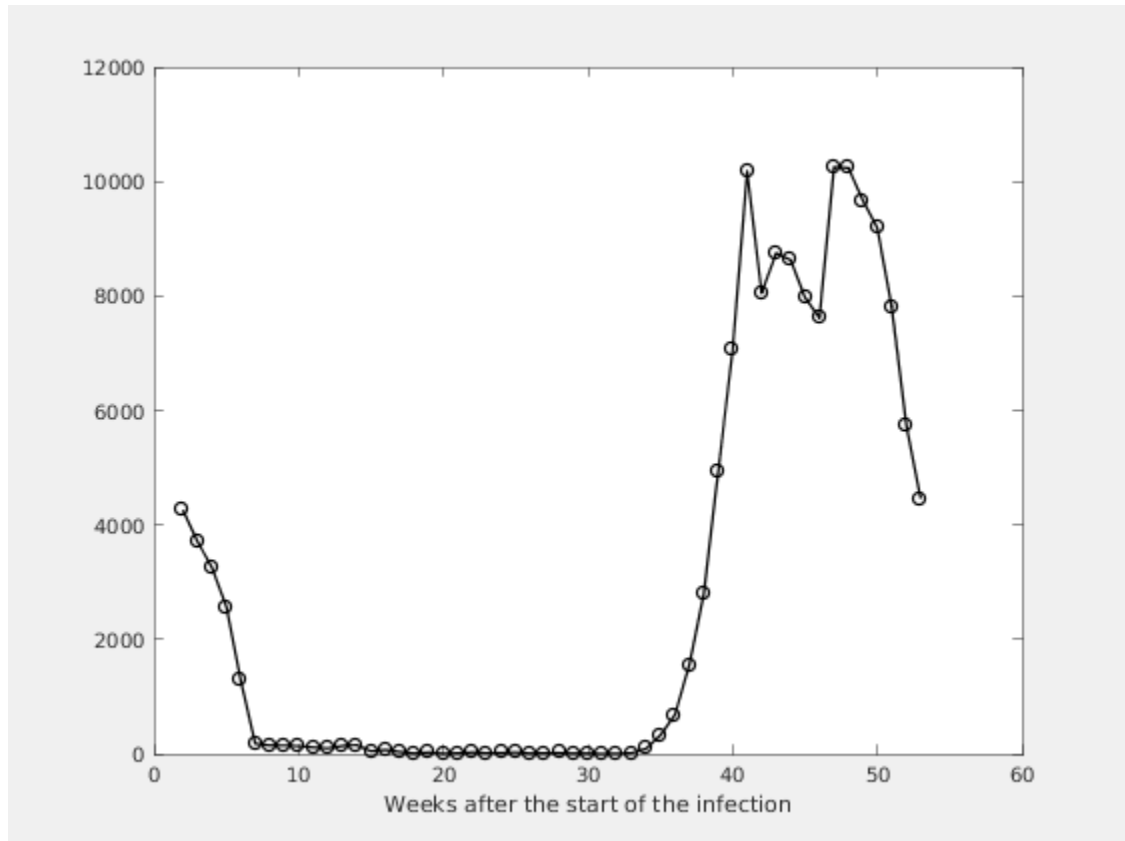
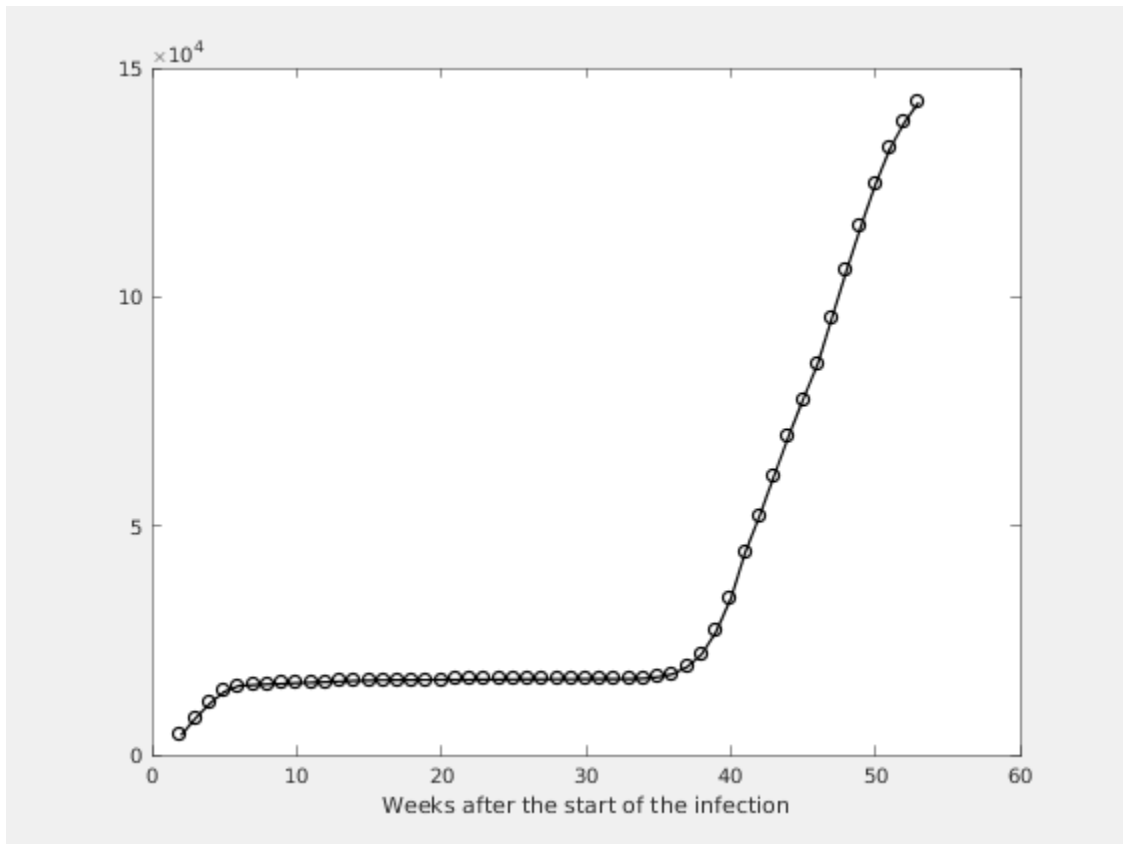


Figure 1.2. Number of the total registered cases



Chapter 2. Estimating of the main parameter and some predictions

Figure 2.1. The Lotka-Nagaev and the Harris type estimator of the growth rate

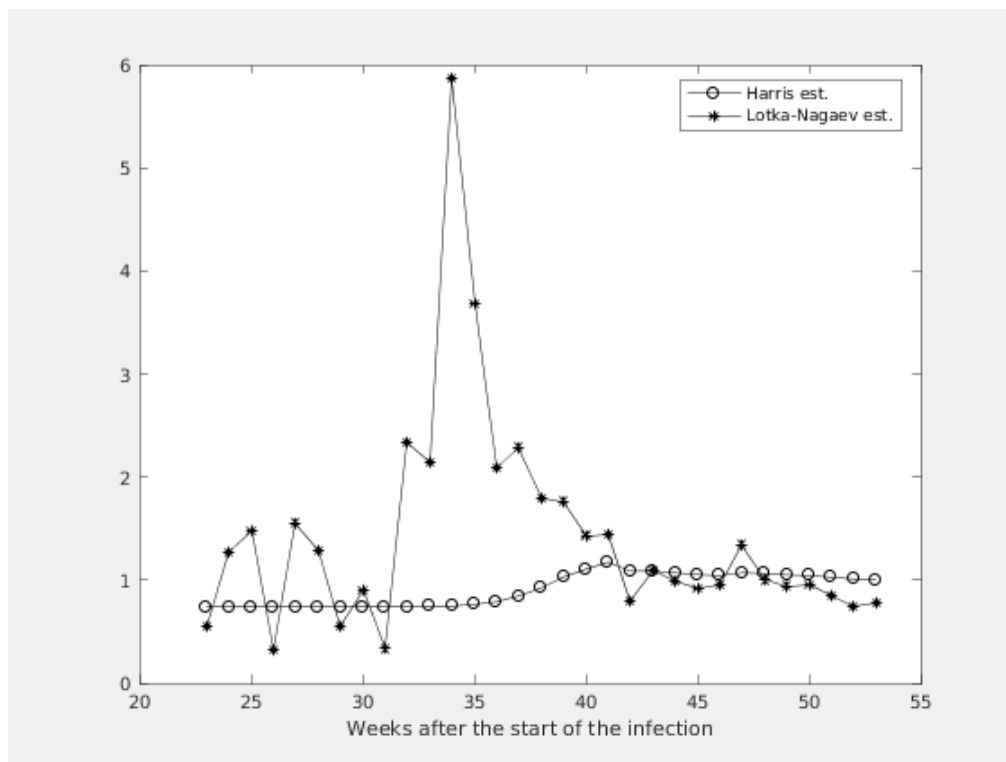


Figure 2.2. Figure

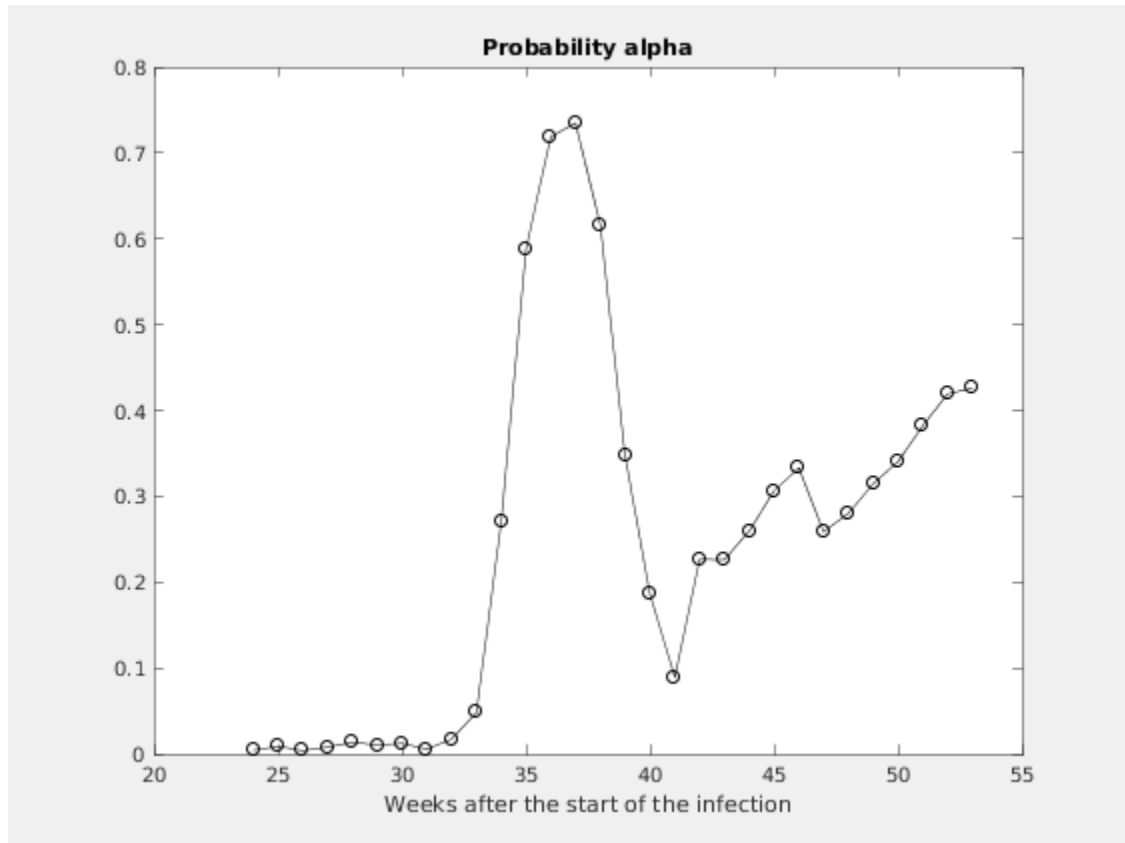


Figure 2.3. Expected number of the nonregistered infected individuals without immigration

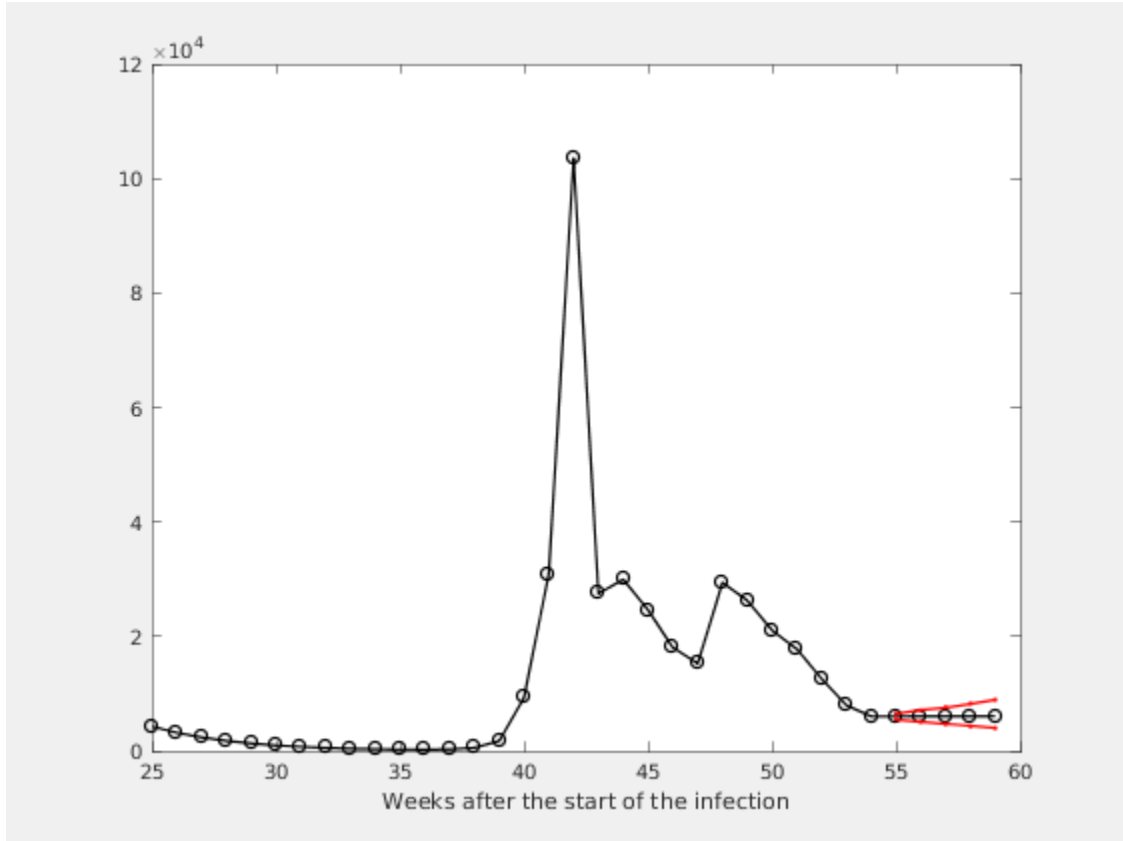
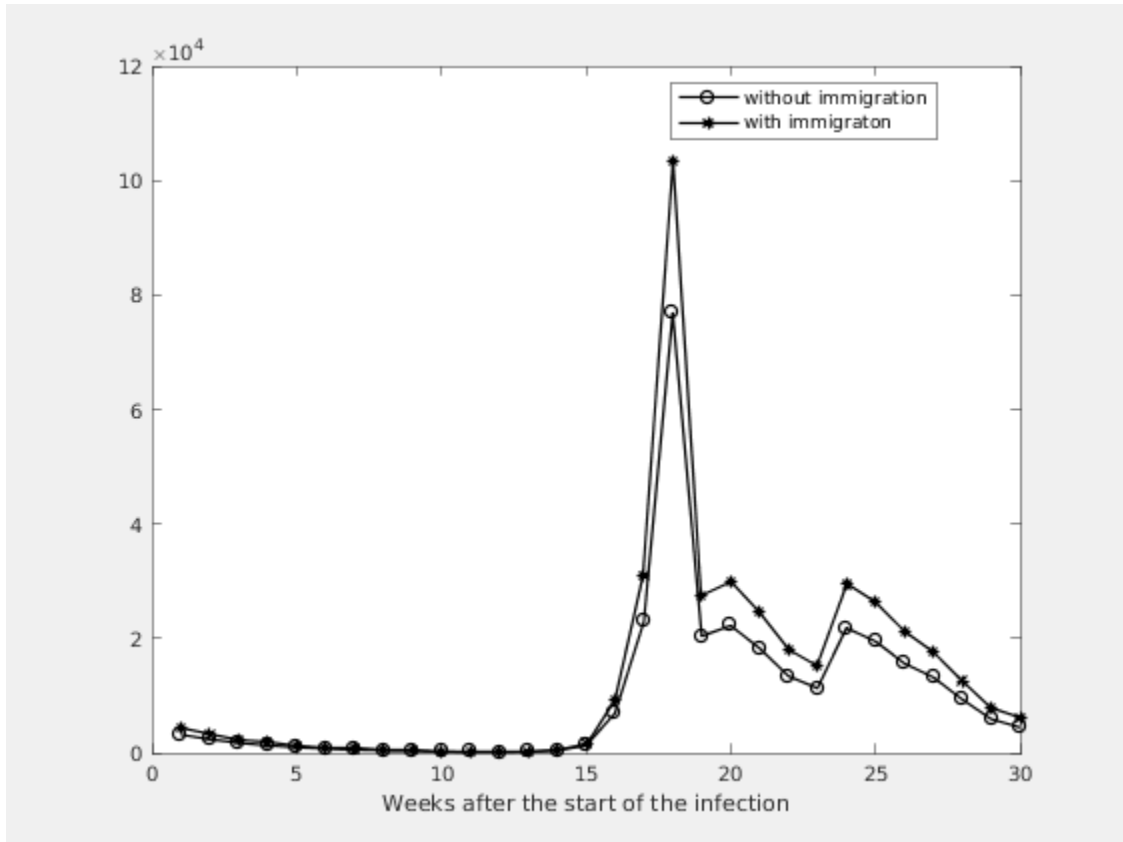


Figure 2.4. Expected number of the nonregistered infected individuals with immigration



Estimation of the model parameters.

k	m	ci	alpha	A1	M1
4	1.0512	0.9478 - 1.1545	0.2585	29403	21821
3	1.0427	0.9459 - 1.1395	0.2804	26285	19508
2	1.0284	0.9367 - 1.1200	0.3146	21063	15632
1	1.0113	0.9239 - 1.0987	0.3405	17797	13208
0	1.0014	0.9171 - 1.0858	0.3823	12589	9343