Graph properties:

Nodes	Edges	Global Clustering Coeff.	Average Cluster Coeff.	Assort. Degree	Assort. Nominal
1379917	3843319	0.0602	0.0470	0.1304	-0.0000

Table 1: Summary of the principal graph properties.

Degree properties:

Min	Max	Mean	Median	Variance	Standard Deviation
1	12	2.7852	3.0000	1.0109	1.0055

Table 2: Summary of the principal degree properties.

AIC values:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibu
TX_Road_Net	5018344.5396	4651545.3397	6514324.1372	6355862.3197	5685382.0429	5018348.7852	4252645.5314	-	3858119.2878

Table 3: Values of the AIC.

ΔAIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
TX_Road_Net	1160225.2518	793426.0519	2656204.8494	2497743.0319	1827262.7551	1160229.4974	394526.2436		0

Table 4: Values of the Delta AIC.

BIC values:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibu
TX_Road_Net	5018356.6771	4651557.4773	6514324.1372	6355874.4572	5685406.318	5018373.0602	4252669.8065	-	3858143.5629

Table 5: Values of the BIC.

ΔBIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
TX_Road_Net	1160213.1142	793413.9144	2656180.5743	2497730.8943	1827262.7551	1160229.4973	394526.2436		0

Table 6: Values of the Delta BIC.

Estimated parameters:

Network	q	lambda	gamma_1	gamma_2	K_max	gamma_3	delta	gamma_4	delta_2	gammaNB	pNB	v	p
TX_Road_Net	0.359	2.5726	1.7162	1.1027	12	0	0.4448	5.7668	710.459	-	-	3.8616	0.9929

Table 7: Values of the estimated parameters.

Initial plots

Degree spectrum

Degree spectrum log−log scale

Degree sequence

Degree

Degree sequence log−log scale

Degree

Empirical distribution

Degree
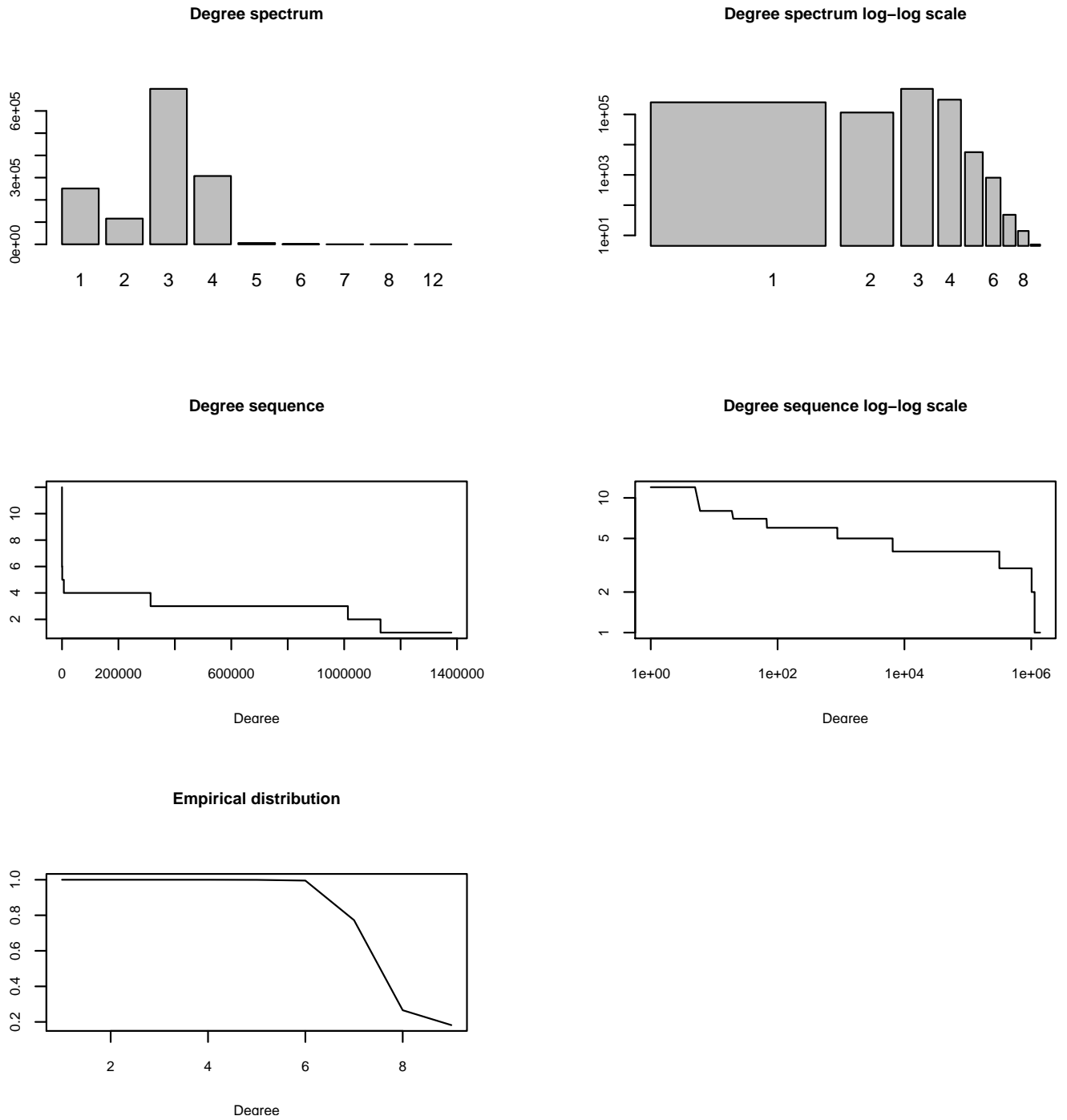
Figure 1: Initial plots.

Fitted model plots:
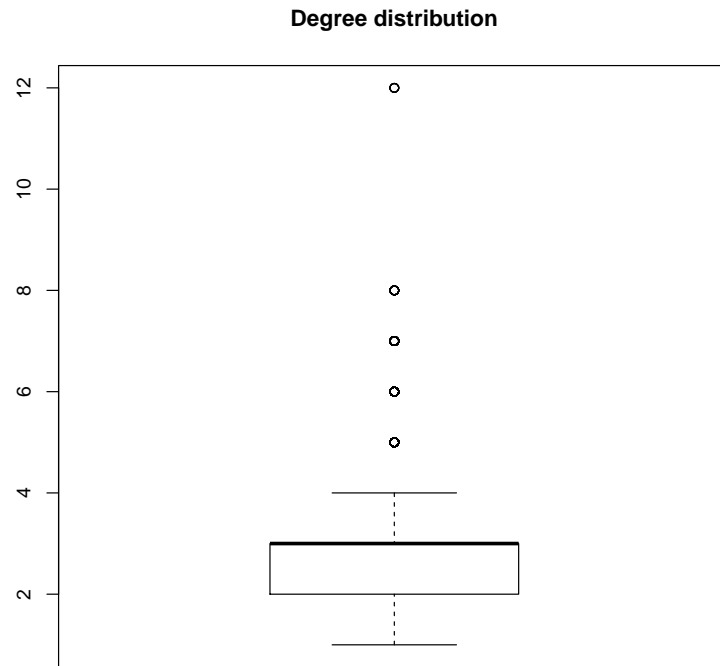
Degree distribution

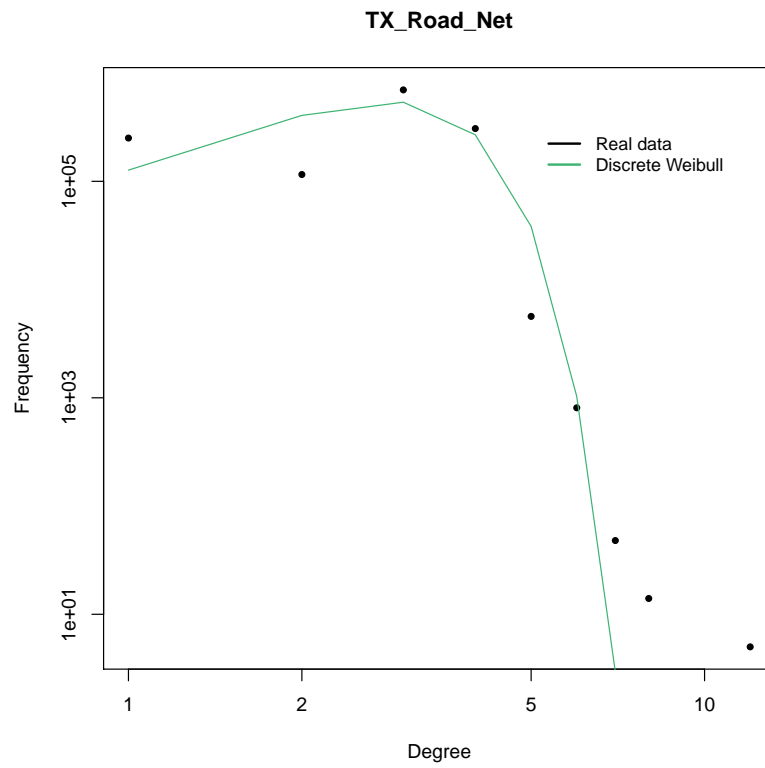Figure 2: Best Model Fitting the data.
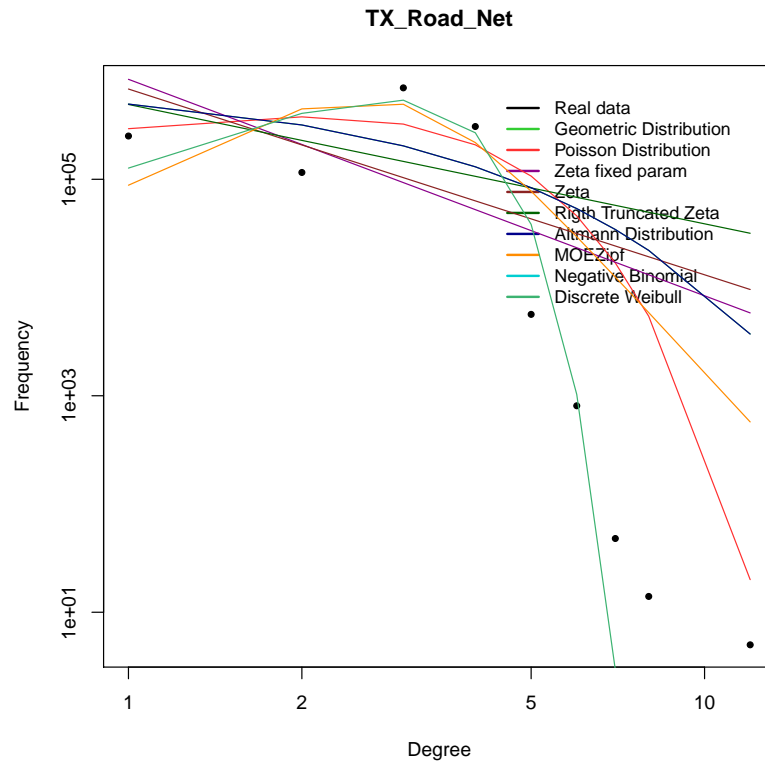
TX_Road_Net

Figure 3: Best Model Fitting the data.

Figure 4: Best Model Fitting the data.