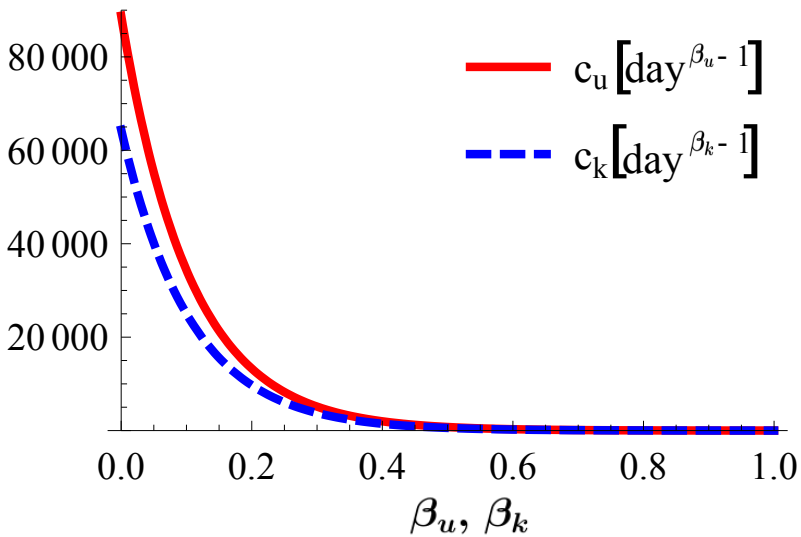
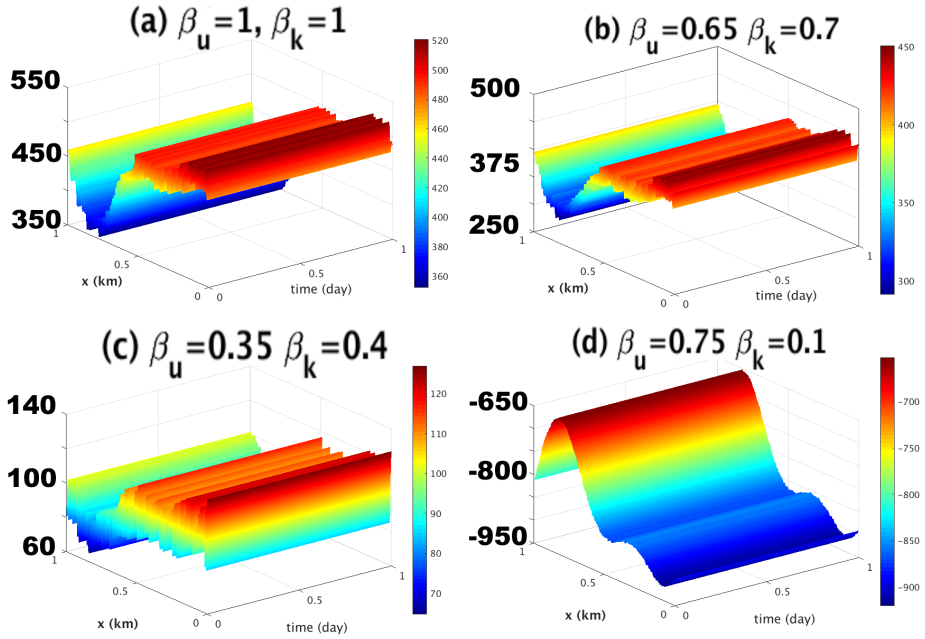
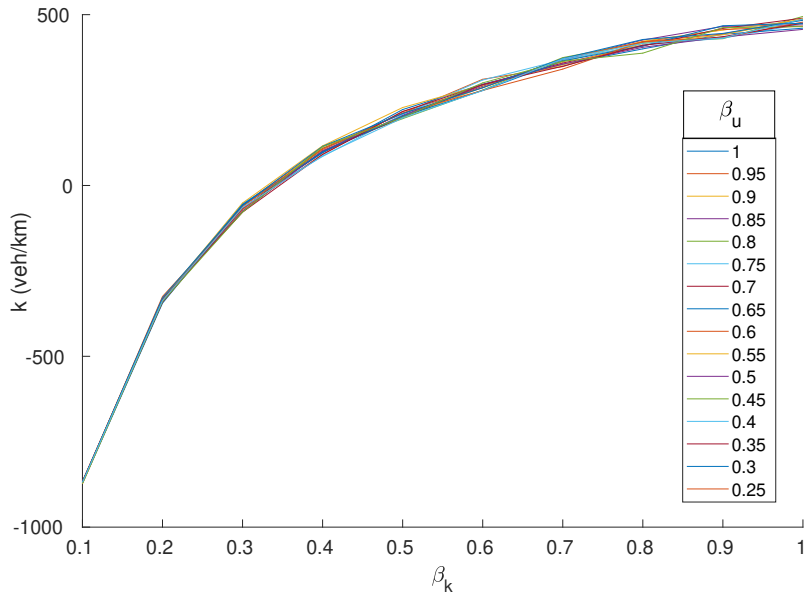
The system of equations is:

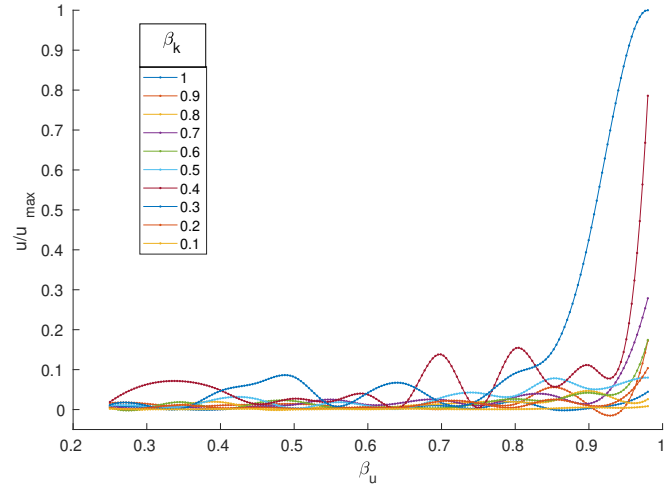
$$c_u \frac{\partial^{\beta_u} u}{\partial t^{\beta_u}} + u \frac{\partial u}{\partial x} = -\frac{C^2}{k} \frac{\partial k}{\partial x}$$

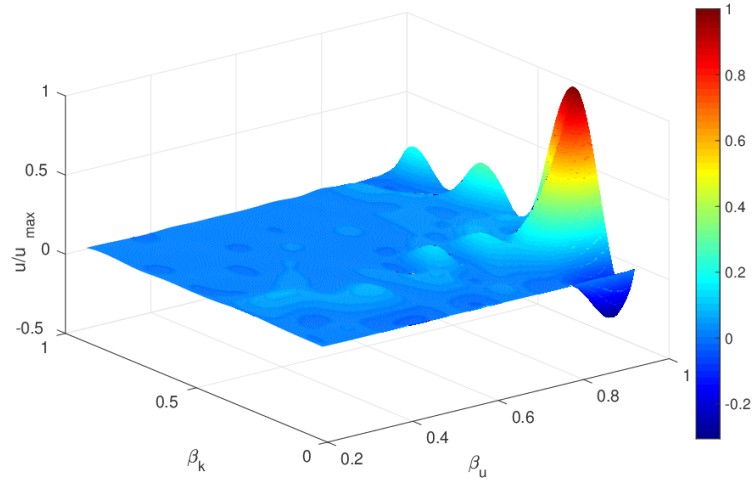
$$c_k \frac{\partial^{\beta_k} k}{\partial t^{\beta_k}} + \frac{\partial q}{\partial x} = 0$$











1. k does not depend on β_u.
2. $\beta_k \gtrsim 0.32$.
3. The velocity decreases as β_u and β_k decrease.
4. We can simulate the general decrement of the vehicular speed by using the Greenberg fractional model.

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