



POLITÉCNICA



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DEPARTAMENTO DE MATEMÁTICA
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SEMINARIO

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A General Model of Traffic Flow in a Network

We obtain a mathematical model which governs the traffic flow of material objects in a net to generalize several previous models like air traffic [1,2].

We analyze the existence and uniqueness of solutions for some particular cases.

Authors: Ángela Jiménez-Casas and Aníbal Rodríguez-Bernal

[1] B.Sridhar,P.K. Menon (2005) Comparison of Linear Dynamic Models for Air Traffic Flow Management, IFAC

[2] D. Sun, I.S. Strub and A.M. Bayen (2007) Comparison of the Performance of Four Eulerian Network Flow Models for Strategic Air Traffic Network Flow Models for Strategic Air Traffic Management. Networks and Heterogeneous Media 2, nº4, 569-594

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