

# MODELLING FOR MEDICINE, BUSINESS AND ENGINEERING 2009

*Instituto de Matemática Multidisciplinar*



**Edited by: L. Jódar, Instituto de Matemática Multidisciplinar**

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Instituto de Matemática Multidisciplinar



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POLITECNICA  
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# MODELLING FOR MEDICINE, BUSINESS AND ENGINEERING 2009

Instituto de Matemática Multidisciplinar  
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# Stochastic network modelling of the pressure of extreme groups in a society.

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Extreme behaviour is produced by small groups but their actions have an impact in a large amount of people. The fear is the strategy developed by these groups to influence the decisions of the whole population in order to achieve their political goals.

The understanding of the transmission dynamics of such a type of extreme behaviours increases the knowledge of the mechanisms behind the evolution of cultural norms and values. Moreover, it can give us tools to know their evolution a priori, eventually disappearing or getting their objectives.

To our knowledge, the antecedents of mathematical modelling approaches where the spread of fanatical behaviour is considered are [1, 2, 3, 4]. Recently, the reference [5] about mathematical methods in counterterrorism has been published.

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