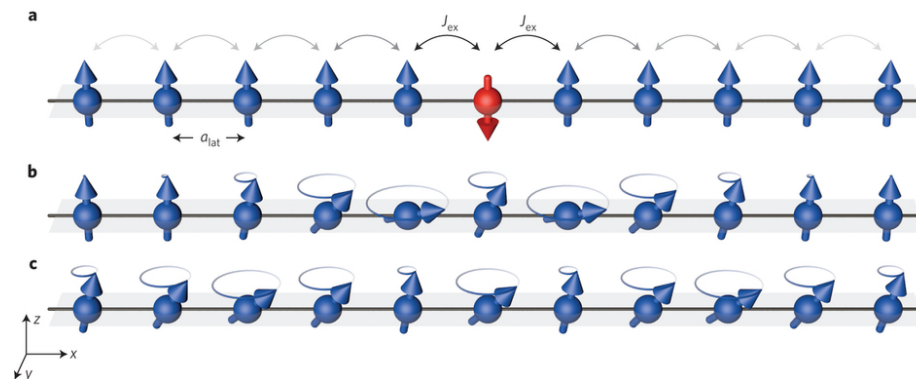
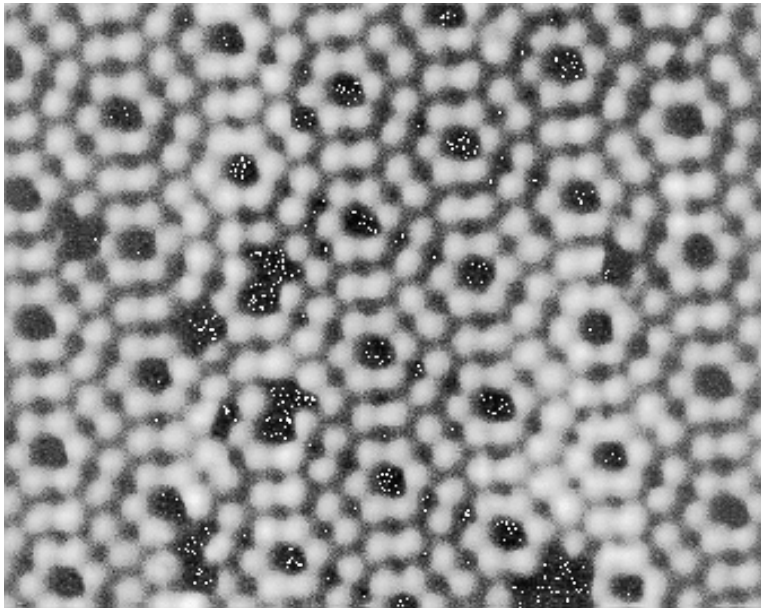


Sociophysics



Sociophysics



Sociophysics

Voter model

Biometrika (1973), **60**, 3, p. 581
Printed in Great Britain

A model for spatial conflict

BY PETER CLIFFORD AND AIDAN SUDBURY

University of Bristol

PRL **112**, 158701 (2014)

PHYSICAL REVIEW LETTERS

week ending
18 APRIL 2014



Is the Voter Model a Model for Voters?

Juan Fernández-Gracia,^{1,*} Krzysztof Suchecki,² José J. Ramasco,¹ Maxi San Miguel,¹ and Víctor M. Eguíluz¹

¹*IFISC (CSIC-UIB), 07122 Palma de Mallorca, Spain*

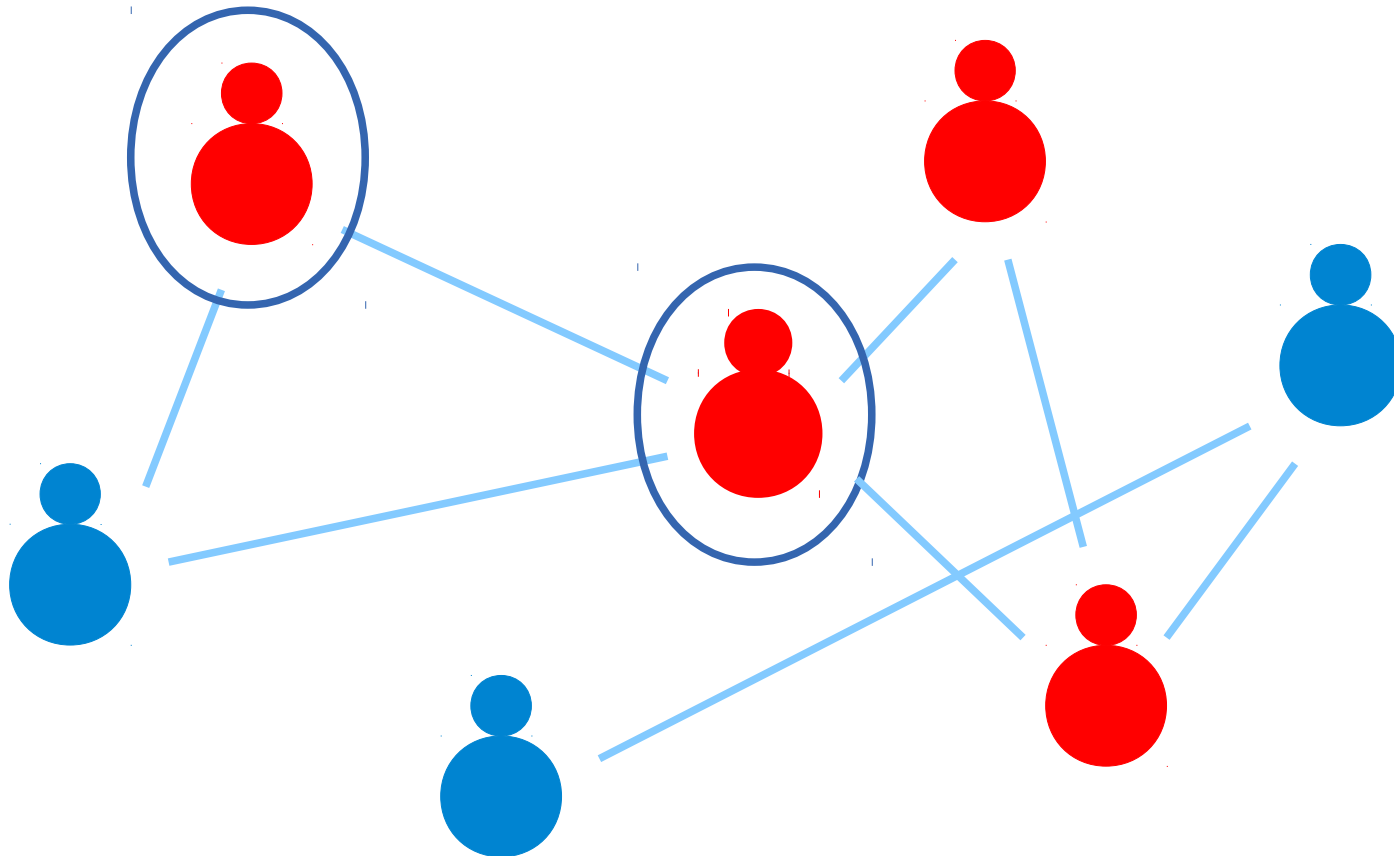
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Koszykowa 75, 00-662 Warsaw, Poland*

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The voter model has been studied extensively as a paradigmatic opinion dynamics model. However, its ability to model real opinion dynamics has not been addressed. We introduce a noisy voter model

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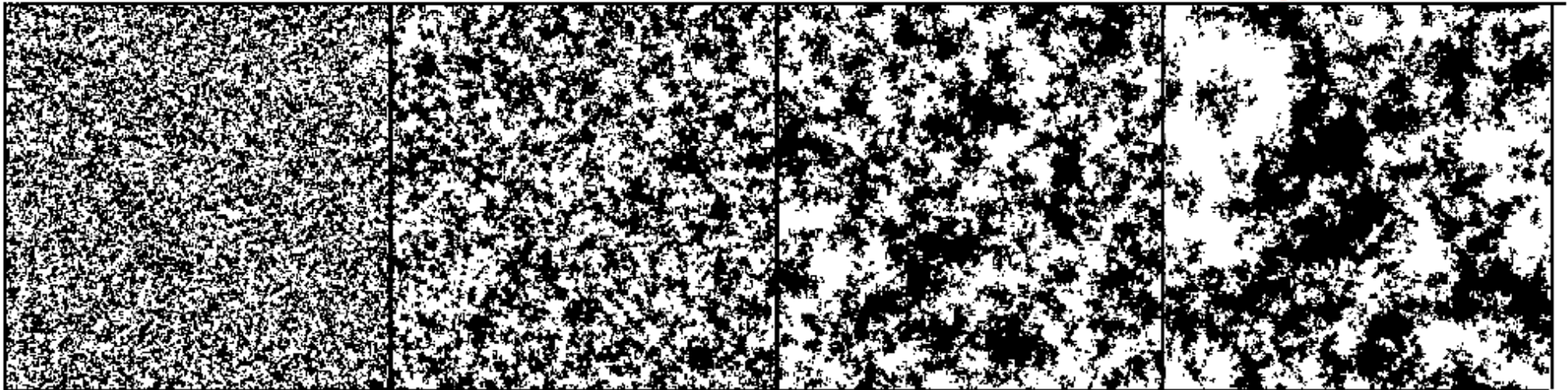
Voter model



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Voter model

random initial condition, 256 x 256 square:



t=4

t=16

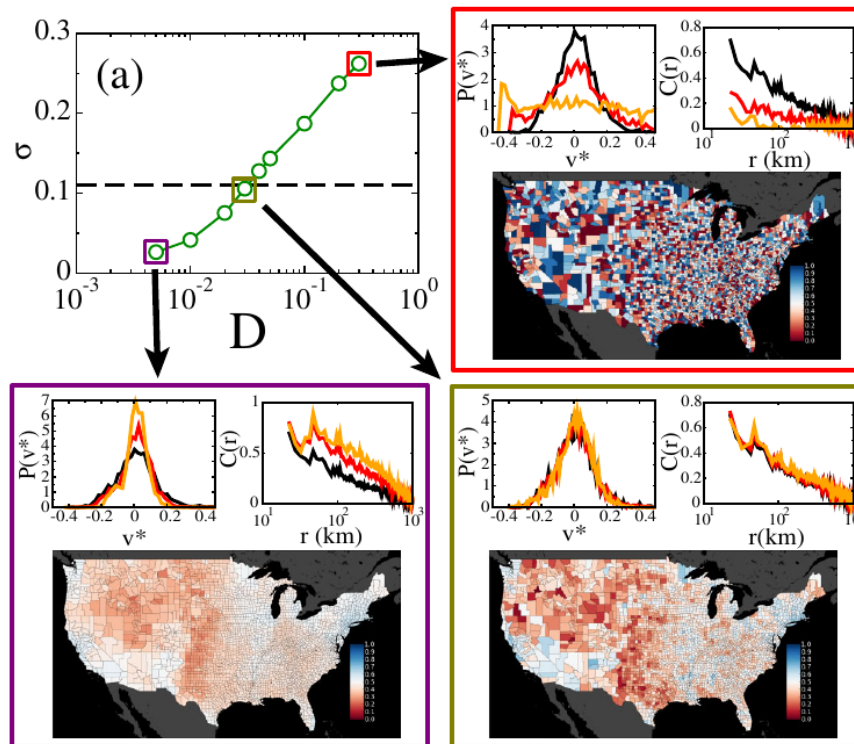
t=64

t=256

Dornic et al. (2001)

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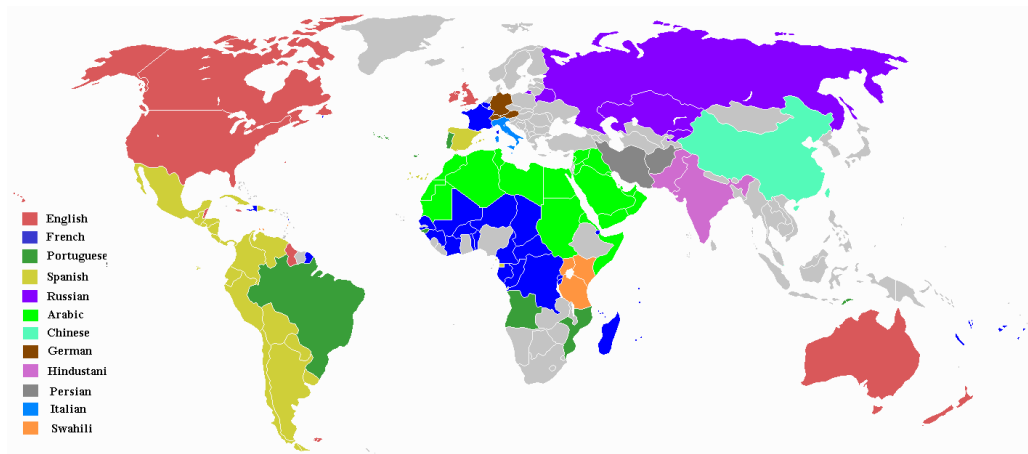
Voter model



Fernández-García *et al.* (2014) *PRL*

Sociophysics

Axelrod's model



Sociophysics

Axelrod's model

The Dissemination of Culture: A Model with Local Convergence and Global Polarization

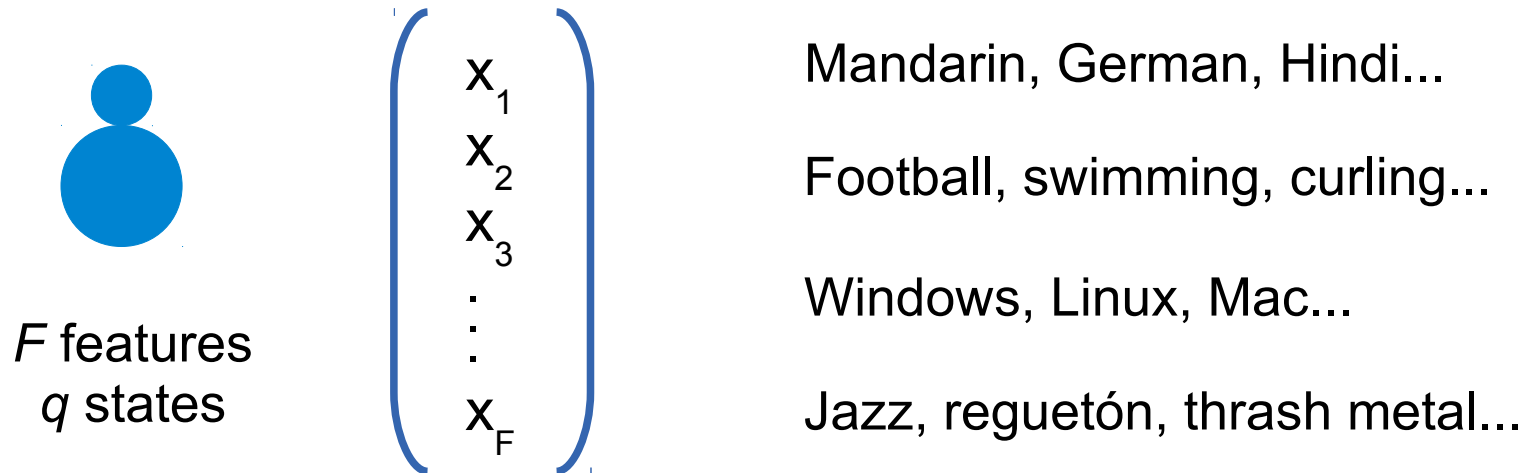
Robert Axelrod

The Journal of Conflict Resolution, Volume 41, Issue 2 (Apr., 1997), 203-226.



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Axelrod's model



1. Choose random pair
2. If at least one feature in common, copy another one

Homophily ~ assortative mixing?

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Axelrod's model

