
**Stochastic
Interacting Systems
Contact Voter And
Exclusion Processes
By Thomas M Liggett**

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models the simplest models
in this area are known as
voter models they were
introduced in refs 26 and
27 later it was realized
that they are very similar
to the earlier stepping
stone model of population
genetics introduced in ref
3 a biased version was
proposed as a model for
tumor growth in ref 4 in
ref 27 the idea was to
model conflict between*

populations' **spatial moran
models i stochastic
tunneling in the**

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if the set of sites in
state 1 is an interval ? r
with ? $lt r$ then any site
that can change has $n-1$ $n=0$
1 so komarova's model is a
time change of the biased
voter model in d 2 this is
not exactly true however we
are interested in values of
? $1/s$ where $s \geq 0.02$ or even
less so we expect the two
models to have very similar
behavior'

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of interacting systems**

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the voter exclusion and
contact processes have
found use in many academic
disciplines in many such
disciplines the underlying
conceptual picture is of a
social network where
individuals meet pairwise
and update'

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systems is a branch of
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close connections to
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financial time series agent
based model is reproduced
and investigated by the
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the finite range
interacting voter system
the voter system originally
describes the collective
behavior of voters who
constantly update their
positions on a particular
topic which is a continuous
time markov process in the
proposed model the
fluctuations of stock price
changes are''additions and
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interacting
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thomas m liggett thanks go
to david aldous paul jung
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and especially je? steif
for their contributions to
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here follows the usual
convention''interacting
particle systems as
stochastic social dynamics

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style of mathematical
models known to
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particle systems and
exemplified by the voter
exclusion and contact
processes have found use in
many academic disciplines
in many such disciplines
the underlying conceptual
picture is of a social
network where individuals
meet pairwise and update
their state opinion
activity etc in a way
depending on the two
previous'

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liggett**

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stochastic interacting
systems contact voter and
exclusion processes and

over 60 papers in this area
he has also contributed to
a number of other fields
including nonlinear
semigroups subadditive
ergodic theory negative
dependence optimal stopping
binatorics random graphs
and renewal theory'

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May 21st, 2020 - thomas
milton liggett march 29
1944 may 12 2020 was a
mathematician at the
university of california
los angeles he worked in
probability theory
specializing in interacting
particle systems he had
contributed to numerous
areas of probability theory
including subadditive
ergodic theory random
graphs renewal theory and
was best known for his
pioneering work on
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distribution across the

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2012 we find that the
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fitted by the beta
distribution to reproduce
this empirical observation
we propose a simple
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behavior in the proposed
model agents change the
party they

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voter dynamic systems in
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process of a stock price on
d dimensional integer
lattice is constructed
based on the voter model we

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macroscopic or mesoscopic level in non ideal environments poses fundamental theoretical challenges in domains ranging from inter and intra cellular transport in biology to diffusion in porous media yet often the nature of the constraints arising from many body interactions or reflecting a plex and confining environment are better understood and modeled'

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