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TECHNOLOGY · MATHEMATICAL METHODS

Andrew Zammit-Mangion

Michael Dewar

Visakan Kadiramanathan

Anaïd Flesken

Guido Sanguinetti

Modeling Conflict Dynamics with Spatio-temporal Data

Modeling Conflict Dynamics With Spatio Temporal Data Springerbriefs In Applied Sciences And Technology

Blaž Kažič



Modeling Conflict Dynamics With Spatio Temporal Data Springerbriefs In Applied Sciences And Technology:

Modeling Conflict Dynamics with Spatio-temporal Data Andrew Zammit-Mangion, Michael Dewar, Visakan Kadirkamanathan, Anaïd Flesken, Guido Sanguinetti, 2013-09-30 This authored monograph presents the use of dynamic spatiotemporal modeling tools for the identification of complex underlying processes in conflict such as diffusion relocation heterogeneous escalation and volatility The authors use ideas from statistics signal processing and ecology and provide a predictive framework which is able to assimilate data and give confidence estimates on the predictions The book also demonstrates the methods on the WikiLeaks Afghan War Diary the results showing that this approach allows deeper insights into conflict dynamics and allows a strikingly statistically accurate forward prediction of armed opposition group activity in 2010 based solely on data from preceding years The target audience primarily comprises researchers and practitioners in the involved fields but the book may also be beneficial for graduate students [Modeling Conflict Dynamics with](#)

[Spatio-temporal Data](#) Andrew Zammit-Mangion, Michael Dewar, Visakan Kadirkamanathan, Anaïd Flesken, Guido Sanguinetti, 2013-11-27 This authored monograph presents the use of dynamic spatiotemporal modeling tools for the identification of complex underlying processes in conflict such as diffusion relocation heterogeneous escalation and volatility The authors use ideas from statistics signal processing and ecology and provide a predictive framework which is able to assimilate data and give confidence estimates on the predictions The book also demonstrates the methods on the WikiLeaks Afghan War Diary the results showing that this approach allows deeper insights into conflict dynamics and allows a strikingly statistically accurate forward prediction of armed opposition group activity in 2010 based solely on data from preceding years The target audience primarily comprises researchers and practitioners in the involved fields but the book may also be beneficial for graduate students **Dynamics of Conflict** Ronald A. Francisco, 2009-04-03 The mechanisms of protest and revolution have been the subject of theoretical research for over a century yet the lack of data has hindered the empirical validation of conflicting theories In this book the author presents a unique new set of sub daily data from over thirty countries and seven civil wars and uses them to test two models of conflict the predator prey model and the competing species model The dynamic nature of the data modelling and the novelty of the dataset make this work a unique contribution to the field of conflict research Dynamics of Conflict will help to re evaluate existing theories and chart a new course towards the formal and statistical modelling of conflict *Analysis of Social Unrest Events Using Spatio-temporal Data Clustering and Agent-based Modelling* Sudeep Basnet, 2019 Social unrest such as appeals protests conflicts fights and mass violence can result from a wide ranging of diverse factors making the analysis of causal relationships challenging with high complexity and uncertainty Unrest events can result in significant changes in a society ranging from new policies and regulations to regime change Widespread unrest often arises through a process of feedback and cascading of a collection of past events over time in regions that are close to each other Understanding the dynamics of these social events and extrapolating their

future growth will enable analysts to detect or forecast major societal events The study and prediction of social unrest has primarily been done through case studies and study of social media messaging using various natural language processing techniques The grouping of related events is often done by subject matter experts that create profiles for countries or locations We propose two approaches in understanding and modelling social unrest data 1 spatio temporal data clustering and 2 agent based modelling We apply the clustering solution to real world unrest events with socioeconomic and infrastructure factors We also present a framework of an agent based model where unrest events act as intelligent agents that continuously study their environment and perform actions We run simulations of the agent based model under varying conditions and evaluate the results in comparison to real world data Our results show the viability of our proposed solutions

Agent-Based Modeling of Social Conflict Carlos M. Lemos, 2017-11-03 This Brief revisits and extends Epstein's classical agent based model of civil violence by considering important mechanisms suggested by social conflict theories Among them are relative deprivation as generator of hardship generalized vanishing of the risk perception massive fear loss when the uprisings surpass a certain threshold endogenous legitimacy feedback and network influence effects represented by the mechanism of dispositional contagion The model is explored in a set of computer experiments designed to provide insight on how mechanisms lead to increased complexity of the solutions The results of the simulations are compared with statistical analyses of estimated size duration and recurrence of large demonstrations and riots for eight African countries affected by the Arab Spring based on the Social Conflict Analysis Database It is shown that the extensions to Epstein's model proposed herein lead to increased generative capacity of the agent based model i.e. a richer set of meaningful qualitative behaviors as well the identification of key mechanisms and associated parameters with tipping points The use of quantitative information international indicators and statistical analyses of conflict events allows the assessment of the plausibility of input parameter values and simulated results and thus a better understanding of the model's strengths and limitations The contributions of the present work for understanding how mechanisms of large scale conflict lead to complex behavior include a new form of the estimated arrest probability a simple representation of political vs economic deprivation with a parameter which controls the sensitivity to value endogenous legitimacy feedback and the effect of network influences due to small groups and activists In addition the analysis of the Social Conflict Analysis Database provided a quantitative description of the impact of the Arab Spring in several countries focused on complexity issues such as peaceful vs violent spontaneous vs organized and patterns of size duration and recurrence of conflict events in this recent and important large scale conflict process This book will appeal to students and researchers working in these computational social science subfields

Dynamic Spatial Panel Estimates of War Contagion Fabrizio Carmignani, Parvinder Kler, 2018 We estimate the temporal spatial and spatio temporal effects of war using a dynamic spatial panel model Our argument is that it is important to account for both the space and temporal lags concurrently while instead the existing literature largely tends to focus on one

or the other Key findings are as follows first there is evidence that both temporal and spatial effects significantly impact upon the duration of war Second we also find that the combined spatio temporal interaction effect is significant only when excluding contemporaneous spatial lag effect Third while stronger for high intensity conflict spatial and temporal effects remain significant also for low intensity conflict Fourth the spatial effect is stronger in magnitude for interstate wars Our results point to the importance of regional co operation for conflict prevention and peace stabilisation

Convex Functions, Monotone Operators, and Differentiability Robert Ralph Phelps, 1993 The improved and expanded second edition contains expositions of some major results which have been obtained in the years since the 1st edition The affirmative answer by Preiss of the decades old question of whether a Banachspace with an equivalent Gateaux differentiable norm is a weak Asplund space The startlingly simple proof by Simons of Rockafellar's fundamental maximal monotonicity theorem for subdifferentials of convex functions The exciting new version of the useful Borwein Preiss smooth variational principle due to Godefroy Deville and Zizler The material is accessible to students who have had a course in Functional Analysis indeed the first edition has been used in numerous graduate seminars Starting with convex functions on the line it leads to interconnected topics in convexity differentiability and subdifferentiability of convex functions in Banach spaces generic continuity of monotone operators geometry of Banach spaces and the Radon Nikodym property convex analysis variational principles and perturbed optimization While much of this is classical streamlined proofs found more recently are given in many instances There are numerous exercises many of which form an integral part of the exposition

Predicting the Dynamics of Spatio-temporal Systems Based on Heterogeneous Data Sources Blaž Kažič, 2020

Whispering the Strategies of Language: An Emotional Quest through **Modeling Conflict Dynamics With Spatio Temporal Data Springerbriefs In Applied Sciences And Technology**

In a digitally-driven earth where displays reign great and quick transmission drowns out the subtleties of language, the profound techniques and mental nuances hidden within phrases frequently move unheard. However, located within the pages of **Modeling Conflict Dynamics With Spatio Temporal Data Springerbriefs In Applied Sciences And Technology** a interesting fictional value pulsating with raw emotions, lies an extraordinary journey waiting to be undertaken. Penned by a skilled wordsmith, this marvelous opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the material of each and every word. Within the psychological depths with this touching review, we will embark upon a sincere exploration of the book is core themes, dissect their interesting writing design, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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