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# **Temporal Network Epidemiology Theoretical Biology By Naoki Masuda Petter Holme**

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*1503 06583 information content of contact pattern*

*January 28th, 2018 - traditional theoretical epidemiology assumes that any individual can meet any with equal probability a more modern approach network epidemiology*

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*assumes people are connected into a static network over which the disease spreads newer yet temporal network epidemiology includes the time in the contact representations'*

**'temporal network epidemiology by naoki masuda overdrive**

**May 23rd, 2020 - changes in network structure are often informed by epidemic or other dynamics in which case they are referred to as adaptive networks this volume gathers contributions by prominent authors working in temporal and adaptive network epidemiology a field essential to understanding infectious diseases in real society'**

**'core**

**June 13th, 2018 - traditional theoretical epidemiology assumes that any individual can meet any with equal probability a more modern approach network epidemiology assumes people are connected into a static network over which the disease spreads newer yet temporal network epidemiology includes the time in the contact representations'**

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'disease spread through animal movements a static and

May 13th, 2020 - background animal trade plays an important role for the spread of infectious diseases in livestock populations the central question of this work is how infectious diseases can potentially spread via trade in such a livestock population we address this question by analyzing the underlying network of animal movements in particular we consider pig trade in germany where trade actors'

'temporal network epidemiology theoretical biology

March 22nd, 2020 - temporal network epidemiology theoretical biology 9789811052866 medicine amp health science books"**networks and the epidemiology of infectious disease**

May 22nd, 2020 - the science of networks has revolutionised research into the dynamics of interacting elements it could be argued that epidemiology in particular has embraced

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the potential of network theory more than any other discipline here we review the growing body of research concerning the spread of infectious diseases on networks focusing on the interplay between network theory and epidemiology'

***'predicting and controlling infectious disease epidemics***

*April 30th, 2020 - network epidemiology has proved an indispensable approach for understanding epidemics of infectious disease often acknowledged in medical epidemiology mathematical biology and more recently network science 3 15 a recent practical example of network epidemiology is the gleamviz platform that succeeded in forecasting the 2009 h1n1 pandemic also see 17 18'*

**'the mathematics of infectious diseases siam review vol**

**May 29th, 2020 - the mathematics of infectious diseases related databases determining whether a class of random graphs is consistent with an observed contact network journal of theoretical biology 440 121 132 2017 surveillance for outbreak detection in livestock trade networks temporal network epidemiology 215 240 2017"networks and the epidemiology of infectious disease**

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**December 30th, 2016 - the paper is split into four main sections which examine the types of network relevant to epidemiology the multitude of ways these networks can be characterised the statistical methods that can be applied to either infer the likely network structure or the epidemiological parameters on a realised network and finally simulation and analytical methods to determine epidemic dynamics on a given "predicting and controlling infectious disease epidemics**

**February 5th, 2017 - network epidemiology has proved an indispensable approach for understanding epidemics of infectious disease often acknowledged in medical epidemiology mathematical biology and more recently network science 3 15 a recent practical example of network epidemiology is the gleamviz platform that succeeded in forecasting the 2009 h1n1 pandemic also see 17 18'**

**'introduction to temporal network epidemiology springerlink**

**March 31st, 2020 - in this introductory chapter we start by briefly summarising temporal and adaptive networks and epidemic process models frequently used in this volume then we introduce a couple of what we think are key studies in the field which are fundamental for various chapters in this volume'**

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**'plant disease epidemiology ecology oxford bibliographies**

**May 11th, 2020 - introduction epidemiology is the science of how disease develops in populations in the context here in plant populations it is a subdiscipline within plant pathology and is concerned with the study of temporal and spatial changes that occur during epidemics caused by populations of pathogens in populations of plants'**

**'unification of theoretical approaches for epidemic**

**April 6th, 2020 - unification of theoretical approaches for epidemic spreading on plex networks attention among researchers in the fields of epidemiology biology sociology mathematics and physics between epidemic spreading and the topology of a contact network several outstanding theoretical approaches have been developed'**

**'theoretical biology and medical modelling biomed central**

**May 14th, 2020 - theoretical biology and medical modelling research open access a global workspace perspective on mental disorders rodrick wallace address**

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**epidemiology of mental disorders research dept the new york state psychiatric institute such as the left middle and inferior temporal gyri and left arcuate fasciculus'**

**'open access journals**

**May 20th, 2020 - alessandro rizzo maurizio porfiri temporal network epidemiology 2017 journal of theoretical biology 2008 251 3 450 20 divine wanduku plete global analysis of a two scale network sirs epidemic dynamic model with distributed delay and random"ag system modeling freie universität**

**May 24th, 2020 - leveraging topological and temporal structure of hospital referral networks for epidemic control vitaly belik andré karch philipp hövel and rafael mikolajczyk in masuda n holme p eds temporal network epidemiology theoretical biology springer singapore 2017 199 214 surveillance for outbreak detection in livestock trade networks"temporal network epidemiology ebook 2017 worldcat**

**May 7th, 2020 - contents 1 introduction to temporal network epidemiology 1 1 introduction 1 2 preliminaries 1 2 1 temporal networks 1 2 2 adaptive networks 1 2 3 basic epidemic process models 1 3 putational considerations 1 4 a few key papers in temporal and adaptive network epidemiology 1 5 what this book is about 1 6 future**



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**work references 2 how behaviour and the environment influence**"*theoretical biology and medical modelling biomed central*

*May 18th, 2020 - theoretical biology and medical modelling this paper reanalyzes the temporal distribution of pandemic influenza in prussia germany from 1918 19 using the daily numbers of deaths which totaled 8911 from 29 mission network j epidemiol munity health 2006 60 640 645'*

**'temporal network epidemiology naoki masuda springer**

*May 31st, 2020 - changes in network structure are often informed by epidemic or other dynamics in which case they are referred to as adaptive networks this volume gathers contributions by prominent authors working in temporal and adaptive network epidemiology a field essential to understanding infectious diseases in real society'*

**'theoretical biology biology stack exchange**

*May 31st, 2020 - browse other questions tagged theoretical biology population dynamics epidemiology infection or ask your own question featured on meta ios mobile app push notifications down from 5 25 6 4'*

**'mathematical modelling of infectious disease**

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**May 31st, 2020 - the basic reproduction number denoted by  $R_0$  is a measure of how transferable a disease is it is the average number of people that a single infectious person will infect over the course of their infection this quantity determines whether the infection will spread exponentially die out or remain constant if  $R_0 > 1$  then each person on average infects more than one other person so the***"temporal network epidemiology theoretical biology*

*May 13th, 2020 - temporal network epidemiology theoretical biology softcover reprint of the original 1st ed 2017 edition by naoki masuda editor petter holme editor isbn 13 978 9811353598 isbn 10 981135359x why is isbn important isbn this bar code number lets you verify that you re getting***temporal networks sciencedirect**

**May 27th, 2020 - methods for statistical inference of temporal networks are still rare although this problem is an important one for systems biology e g in the context of temporal networks of gene regulation where ref use a markov chain monte carlo approach to infer the parameters of a so called bayesian network representation of gene regulatory networks'**

**'journal of animal ecology**

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**May 31st, 2020 - division of theoretical biology linköping university sweden anna is an ecologist with a special interest in theoretical ecology she is fascinated by the diversity of life we see around us and how the intricate network of species interactions and abiotic factors act together and form our ecosystems'**

**'hartmut lentz google scholar citations**

May 15th, 2020 - their bined citations are counted only for the first article merged citations this cited by count includes citations to the following articles in scholar the ones marked may be different from the article in the profile add co authors co authors upload pdf pdf restore delete forever"**temporal network epidemiology naoki masuda petter holme**

March 25th, 2020 - changes in network structure are often informed by epidemic or other dynamics in which case they are referred to as adaptive networks this volume gathers contributions by prominent authors working in temporal and adaptive network epidemiology a field essential to understanding infectious diseases in real society'

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*May 17th, 2020 - download temporal network epidemiology ebook pdf or read online this volume gathers contributions by prominent authors working in temporal and adaptive network epidemiology a field essential to understanding teleoperation game theoretical frameworks and population models in biology e g mixed effects and bayesian modeling***theoretical ecology**

**April 6th, 2020 - theoretical ecology is the scientific discipline devoted to the study of ecological systems using theoretical methods such as simple conceptual models mathematical models putational simulations and advanced data analysis effective models improve understanding of the natural world by revealing how the dynamics of species populations are often based on fundamental biological conditions and"temporal dynamics and network analysis blonder 2012**

**May 6th, 2020 - network analysis is widely used in diverse fields and can be a powerful framework for studying the structure of biological systems temporal dynamics are a key issue for many ecological and evolutionary questions these dynamics include both changes in network topology and flow on the network"about netdely 2018**

**April 4th, 2020 - network science provides a natural framework to encode the plexity of life science phenomena across the fields of biology ecology epidemiology and public health an increasing attention is recently devoted to the web of interactions taking place among infectious disease agents and between the pathogens and the living species hosting them**

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**'thomas owen richardson google scholar citations**

**May 17th, 2020 - this cited by count includes citations to the following articles in scholar jonas ismael liechti theoretical biology eth zurich verified email at env ethz ch  
sebastian bonhoeffer theoretical biology temporal network epidemiology 17 42 2017 4"network epidemiology and plant trade networks aob plants**

December 11th, 2019 - temporal trend in the proportion of epidemiological publications mentioning networks obtained by dividing the number of papers retrieved each year  
searching at the same time for the keywords networks and epidemic by the number of papers retrieved that year with the keyword epidemic in google scholar and web of science  
1991 2010 as abstracts are searched in web of"opportunities bansal lab

**May 28th, 2020 - spatio temporal dynamics of vaccination behavior and immunizing infections measles pertussis influenza network modeling of behavior and disease in  
animal societies qualifications a doctorate in applied mathematics network science biostatistics mathematical biology theoretical ecology epidemiology or a closely  
related field'**

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**'impact of misinformation in temporal network epidemiology**

**May 25th, 2020 - a guide to temporal networks presents recent theoretical and modelling progress in types of signaling in biology static graphs for network epidemiology from temporal" data on face to face contacts in an office building**

**April 4th, 2020 - data on face to face contacts in an office building suggest a low cost vaccination strategy based on munity linkers volume 3 issue 3 mathieu génois christian l vestergaard julieournet andré panisson isabelle bonmarin alain barrat'**

**'html aims press open access journals**

May 27th, 2020 - recent experience of the ebola outbreak in 2014 highlighted the importance of immediate response measure to impede transmission in the early stage to this aim efficient and effective allocation of limited resources is crucial among the standard interventions is the practice of following up with the recent physical contacts of the infected

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individuals known as contact tracing'

**'theoretical biology and medical modelling biomed central**

**May 5th, 2020 - theoretical biology and medical modelling research open access epidemiology medical university of south carolina 303k cannon place 135 cannon street charleston by preprocessing the temporal profile data and fitting them preliminarily by multivariate linear regression'**

*'temporal definition of temporal by merriam webster*

*May 31st, 2020 - temporal adjective of or relating to time as opposed to eternity of or relating to earthly life lay or secular rather than clerical or sacred civil'*

*'temporal network sampling request pdf*

*May 27th, 2020 - consequently temporal motifs which are generalizations of small subgraph patterns that incorporate temporal ordering on edges are an emerging part of the*

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*network analysis toolbox'*

**'sir models of epidemics theoretical biology eth zurich**

**May 22nd, 2020 - basic reproductive ratio the key parameter of epidemiology it represents the number of secondary cases initiated by the introduction of a single infected individual into a naive population phase portrait also called a phase diagram it shows the temporal evolution of two or three variables of a system"***temporal network epidemiology springerlink*

*April 15th, 2020 - changes in network structure are often informed by epidemic or other dynamics in which case they are referred to as adaptive networks this volume gathers contributions by prominent authors working in temporal and adaptive network epidemiology a field essential to understanding infectious diseases in real society'*

**'using social network measures in wildlife disease ecology**

**May 22nd, 2020 - in this section we discuss three ways in which network analytic approaches could be applied outside the study of social contacts to provide insights**



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**into disease using multiple network approaches to understand how transmission of infection occurs network analysis to explore site connectivity and disease epidemiology at large spatiotemporal scales and 3 network analysis in long term data"sensitivity to temporal and topological misinformation in**

April 4th, 2020 - temporal network epidemiology springer 2017 pp 43 55 apa temporal network epidemiology series title theoretical biology issn 2522 0438 2522 0446 isbn 9789811052866 9789811052873 pages 43 55 publisher springer place of publication singapore doi 10 1007 978 981 10 5287 3 3 language'

**'temporal network epidemiology theoretical biology**

**May 12th, 2020 - changes in network structure are often informed by epidemic or other dynamics in which case they are referred to as adaptive networks this volume gathers contributions by prominent authors working in temporal and adaptive network epidemiology a field essential to understanding infectious diseases in real society"sensitivity to temporal and topological misinformation in**

*March 29th, 2020 - structures both in the network of who interact with whom and the timing of these contacts affect epidemic outbreaks in practical applications such information would frequently be inaccurate in this work we explore how the accuracy in the prediction of the final outbreak size and the time to extinction of the outbreak depend*

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*on the quality of the contact information"***kayin leung data scientist hal24k linkedin**

May 31st, 2020 - mean field at distance one in masuda n holme p eds temporal network epidemiology theoretical biology springer singapore 5 oktober 2017'

**'10 integration of biology and epidemiology health risks**

**May 23rd, 2020 - chapters 2 and 3 review the largely cellular and molecular data that strongly support the proposition that chromosomal dna the genetic material of the cell represents the principal target for the deleterious effects of ionizing radiation in brief energy deposition from low let electron tracks intersecting dna or its local environment can lead to radical mediated disruption of covalent"**ucc research profiles philipp hoevel mathematical sciences

**May 25th, 2020 - philipp hoevel biography dr philipp hoevel is a trained mathematician and physicist his research mission is to lift the boundaries between data oriented science theoretical approaches and numerical simulations addressing interdisciplinary questions based on an overlap of nonlinear dynamics network science and control theory'**

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**'temporal definition of temporal by the free dictionary**

May 30th, 2020 - define temporal temporal synonyms temporal pronunciation temporal translation english dictionary definition of temporal adj 1 of relating to holding in the theoretical belief of almost every one the absolute power of all men s salvation or spiritual death'

**'the temporal network of mobile phone users in changchun**

**May 19th, 2020 - the resulting temporal network of mobile phone users and the dynamic weighted and directed mobility network are released in simple formats for easy access to motivating research using this new"**

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