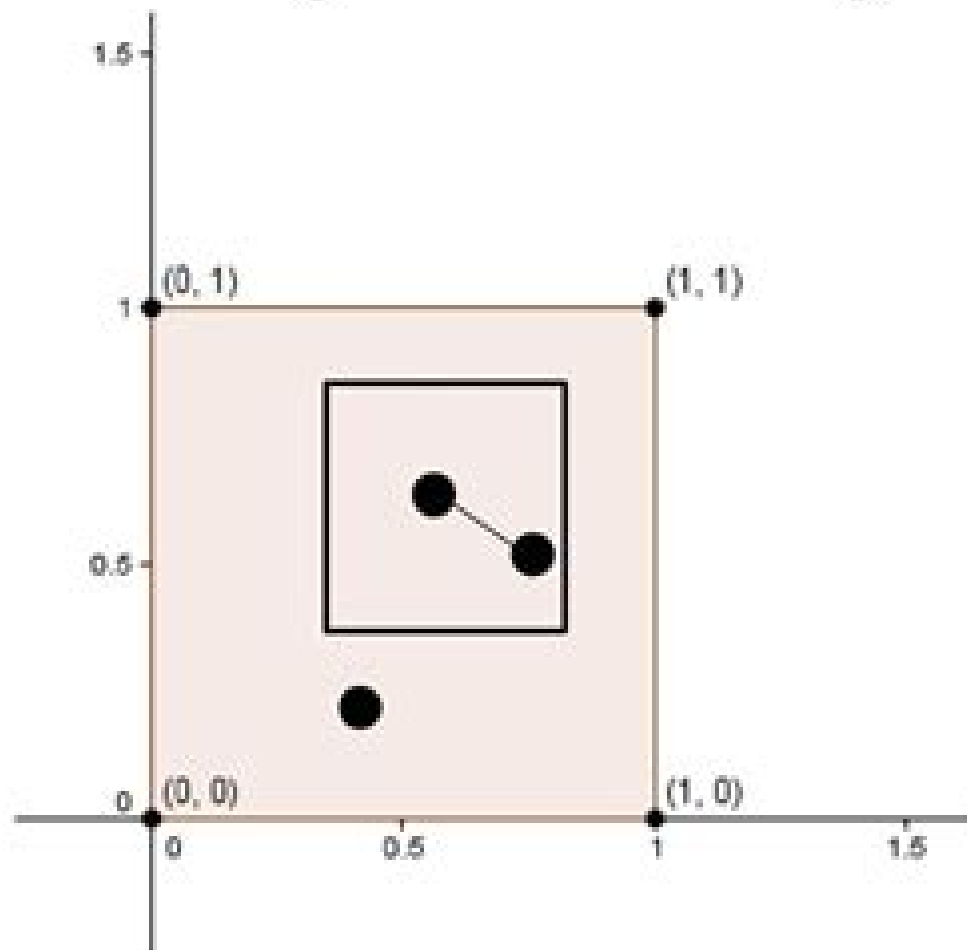# Random geometric graphs

Infinite random geometric graphs -
Anthony Bonato

Random Geometric Graphs

Henry-Louis Melchior de Kergorlay

Random Geometric Graphs:

Random Geometric Graphs Mathew Penrose,2003 *Random Geometric Graphs* Mathew Penrose,2003-05-01 This monograph sets out a body of mathematical theory for finite graphs with nodes placed randomly in Euclidean space and edges added to connect points that are close to each other As an alternative to classical random graph models these geometric graphs are relevant to the modelling of real world networks having spatial content arising in numerous applications such as wireless communications parallel processing classification epidemiology astronomy and the internet Aimed at graduate students and researchers in probability combinatorics statistics and theoretical computer science it covers topics such as edge and component counts vertex degrees cliques colourings connectivity giant component phenomena vertex ordering and partitioning problems It also illustrates and extends the application to geometric probability of modern techniques including Stein s method martingale methods and continuum percolation **Random Geometric Graphs** Chen Avin,2006 1A Bernoulli random graph a k a Erdos Renyi graph B n p is a random graph with n nodes in which each edge is chosen independently at random with an edge probability p n **Efficient Broadcast on Random Geometric Graphs** ,2009 A Randon Geometric Graph RGG is constructed by distributing n nodes uniformly at random in the unit square and connecting two nodes if their Euclidean distance is at most r for some prescribed r They analyze the following randomized broadcast algorithm on RGGs At the beginning there is only one informed node Then in each round each informed node chooses a neighbor uniformly at random and informs it They prove that this algorithm informs every node in the largest component of a RGG in Omicron n r rounds with high probability This holds for any value of r larger than the critical value for the emergence of a giant component In particular the result implies that the diameter of the giant component is Theta n r

Asymptotic Properties of Random Geometric Graphs Sanatan Rai,2005 *Random Broadcast on Random Geometric Graphs* ,2009 In this work we consider the random broadcast time on random geometric graphs RGGs The classic random broadcast model also known as push algorithm is defined as starting with one informed node in each succeeding round every informed node chooses one of its neighbors uniformly at random and informs it We consider the random broadcast time on RGGs when with high probability i RGG is connected ii when there exists the giant component in RGG We show that the random broadcast time is bounded by Omicron n diam component where diam component is a diameter of the entire graph or the giant component for the regimes i or ii respectively In other words for both regimes we derive the broadcast time to be Theta diam G which is asymptotically optimal **Random Geometric Graphs and Their Applications in Neuronal Modelling** Fioralba Ajazi,2018 Th se HEC 2018 Linear Orderings of Random Geometric Graphs ,1999 Random Geometric Graphs Tobias Müller,2006 *Structural and Algorithmic Properties of Static and Mobile Random Geometric Graphs* Alexandre De Oliveira Stauffer,2011 We study fundamental problems for static and mobile networks First we consider the random geometric graph model which is a well known model for static wireless networks In

this model n nodes are distributed independently and uniformly at random in the d dimensional torus of volume n and edges are added between pairs of nodes whose Euclidean distance is at most some parameter r We consider the case where r is a sufficiently large constant so that a so called giant component a connected component with Theta n nodes exists with high probability In this setting we show that the graph distance between every pair of nodes whose Euclidean distance is sufficiently large is only a constant factor larger than their Euclidean distance This result gives as a corollary that the diameter of the giant component is Theta n 1 d r Then we apply this result to analyze the performance of a broadcast algorithm known as the push algorithm In this algorithm at each discrete time step each informed node chooses a neighbor independently and uniformly at random and informs it We show that the push algorithm informs all nodes of the giant component of a random geometric graph within a number of steps that is only a constant factor larger then the diameter of the giant component In the second part of the thesis we consider a model of mobile graphs that we call mobile geometric graphs and which is an extension of the random geometric graph model to the setting where nodes are not static but are moving in space in continuous time In this model we start with a random geometric graph and let the nodes move as independent Brownian motions Then at any given time there exists an edge between every pair of nodes whose Euclidean distance at that time is at most r This model has been recently used as a model for mobile wireless networks We study four fundamental problems in this model detection the time until a target point fixed or moving is within distance r of some node of the graph coverage the time until all points inside a finite box are detected by the graph percolation the time until a given node belongs to the giant component of the graph and broadcast the time until all nodes of the graph receive a piece of information that was initially known by a single node We obtain precise asymptotics for these quantities by combining ideas from stochastic geometry coupling and multi scale analysis Finally in the last part of the thesis we revisit the push algorithm described above and study its performance in general regular graphs Our goal is to understand the relation between the performance of the push algorithm and the vertex expansion of the graph We prove an upper bound for the runtime of this algorithm that depends on the vertex expansion of the graph and is tight up to polylogarithmic factors Then we show that there exists a substantial difference between the impact of vertex expansion and edge expansion on the performance of the push algorithm In particular we prove the existence of regular graphs which are also vertex transitive that have constant vertex expansion and for which the runtime of the push algorithm is a factor of Omega log n slower than on any regular graph with constant edge expansion   Connectivity and Centrality in Dense Random Geometric Graphs Alexander Paul Kartun-Giles,2017   Random Geometric Graphs and Data Structures Henry-Louis Melchior de Kergorlay,2020

Graph-Theoretic Concepts in Computer Science Peter Widmayer,Gabriele Neyer,Stephan Eidenbenz,2003-06-26 This book constitutes the refereed proceedings of the 25th International Workshop on Graph Theorie Concepts in Computer Science WG 99 held at the Centre Stefano Frascini on Monte Verita Ascona Switzerland in June 1999 The 33 revised full

papers presented together with four invited contributions were carefully reviewed and selected from 64 papers submitted The papers provide a wealth of new results for various graph classes graph computations graph algorithms and graph theoretical applications in a variety of fields *Spectra of Adjacency Matrices of Random Geometric Graphs* Paul G. Blackwell,Mark Edmondson-Jones,Jonathan Jordan,University of Sheffield. Department of Probability and Statistics,2007

Experimental Algorithms Jan Vahrenhold,2009-05-22 This book constitutes the refereed proceedings of the 8th International Symposium on Experimental and Efficient Algorithms SEA 2009 held in Dortmund Germany in June 2009 The 23 revised full papers were carefully reviewed and selected from 64 submissions and present current research on experimental evaluation and engineering of algorithms as well as in various aspects of computational optimization and its applications Contributions are supported by experimental evaluation methodological issues in the design and interpretation of experiments the use of meta heuristics or application driven case studies that deepen the understanding of a problem s complexity **Stochastic Processes: Modeling and Simulation** D N Shanbhag,Calyampudi Radhakrishna Rao,2003-02-24 This sequel to volume 19 of Handbook on Statistics on Stochastic Processes Modelling and Simulation is concerned mainly with the theme of reviewing and in some cases unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour This volume consists of 23 chapters addressing various topics in stochastic processes These include among others those on manufacturing systems random graphs reliability epidemic modelling self similar processes empirical processes time series models extreme value therapy applications of Markov chains modelling with Monte Carlo techniques and stochastic processes in subjects such as engineering telecommunications biology astronomy and chemistry particular with modelling simulation techniques and numerical methods concerned with stochastic processes The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19 The present volume completes the aim of the project and should serve as an aid to students teachers researchers and practitioners interested in applied stochastic processes *Discrete Mathematics Days 2022* Luis Felipe Tabera Alonso,2022-07-04 El congreso Discrete Mathematics Days DMD20 22 tendr lugar del 4 al 6 de julio de 2022 en la Facultad de Ciencias de la Universidad de Cantabria Santander Espa a Este congreso internacional se centra en avances dentro del campo de la Matem tica discreta incluyendo de manera no exhaustiva Algoritmos y Complejidad Combinatoria Teor a de C digos Criptograf a Geometr a Discreta y Computacional Optimizaci n Discreta Teor a de Grafos Problemas de localizaci n discreta y temas relacionados Las ediciones anteriores de este evento se celebraros en Sevilla 2018 y Barcelona 2016 estos congresos heredan la tradici n de las Jornadas de Matem tica Discreta y Algor tmica JMDA el encuentro bienal en Espa a en Matem tica Discreta desde 1998 Durante la celebraci n del congreso tendr n lugar cuatro conferencias plenarias cuarenta y dos presentaciones orales y una sesi n de once p steres Abstract The Discrete Mathematics Days DMD20 22 will be held on July 4 6 2022 at Facultad de Ciencias of the Universidad de Cantabria Santander Spain The main focus of this international

conference is on current topics in Discrete Mathematics including but not limited to Algorithms and Complexity Combinatorics Coding Theory Cryptography Discrete and Computational Geometry Discrete Optimization Graph Theory Location and Related Problems The previous editions were held in Sevilla in 2018 and in Barcelona in 2016 inheriting the tradition of the Jornadas de Matem tica Discreta y Algor tmica JMDA the Spanish biennial meeting since 1998 on Discrete Mathematics The program consists on four plenary talks 42 contributed talks and a poster session with 11 contributions

Graph Theoretic Methods in Multiagent Networks Mehran Mesbahi,Magnus Egerstedt,2010-07-01 This accessible book provides an introduction to the analysis and design of dynamic multiagent networks Such networks are of great interest in a wide range of areas in science and engineering including mobile sensor networks distributed robotics such as formation flying and swarming quantum networks networked economics biological synchronization and social networks Focusing on graph theoretic methods for the analysis and synthesis of dynamic multiagent networks the book presents a powerful new formalism and set of tools for networked systems The book s three sections look at foundations multiagent networks and networks as systems The authors give an overview of important ideas from graph theory followed by a detailed account of the agreement protocol and its various extensions including the behavior of the protocol over undirected directed switching and random networks They cover topics such as formation control coverage distributed estimation social networks and games over networks And they explore intriguing aspects of viewing networks as systems by making these networks amenable to control theoretic analysis and automatic synthesis by monitoring their dynamic evolution and by examining higher order interaction models in terms of simplicial complexes and their applications The book will interest graduate students working in systems and control as well as in computer science and robotics It will be a standard reference for researchers seeking a self contained account of system theoretic aspects of multiagent networks and their wide ranging applications This book has been adopted as a textbook at the following universities University of Stuttgart Germany Royal Institute of Technology Sweden Johannes Kepler University Austria Georgia Tech USA University of Washington USA Ohio University USA

Extended Abstracts EuroComb 2021 Jaroslav Nešetřil,Guillem Perarnau,Juanjo Rué,Oriol Serra,2021-08-23 This book collects the extended abstracts of the accepted contributions to EuroComb21 A similar book is published at every edition of EuroComb every two years since 2001 collecting the most recent advances in combinatorics graph theory and related areas It has a wide audience in the areas and the papers are used and referenced broadly **Graph Searching Games and Probabilistic Methods** Anthony Bonato,Pawel Pralat,2017-11-28 Graph Searching Games and Probabilistic Methods is the first book that focuses on the intersection of graph searching games and probabilistic methods The book explores various applications of these powerful mathematical tools to games and processes such as Cops and Robbers Zombie and Survivors and Firefighting Written in an engaging style the book is accessible to a wide audience including mathematicians and computer scientists Readers will find that the book provides state of the art results techniques and directions in graph

searching games especially from the point of view of probabilistic methods The authors describe three directions while providing numerous examples which include Playing a deterministic game on a random board Players making random moves Probabilistic methods used to analyze a deterministic game

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