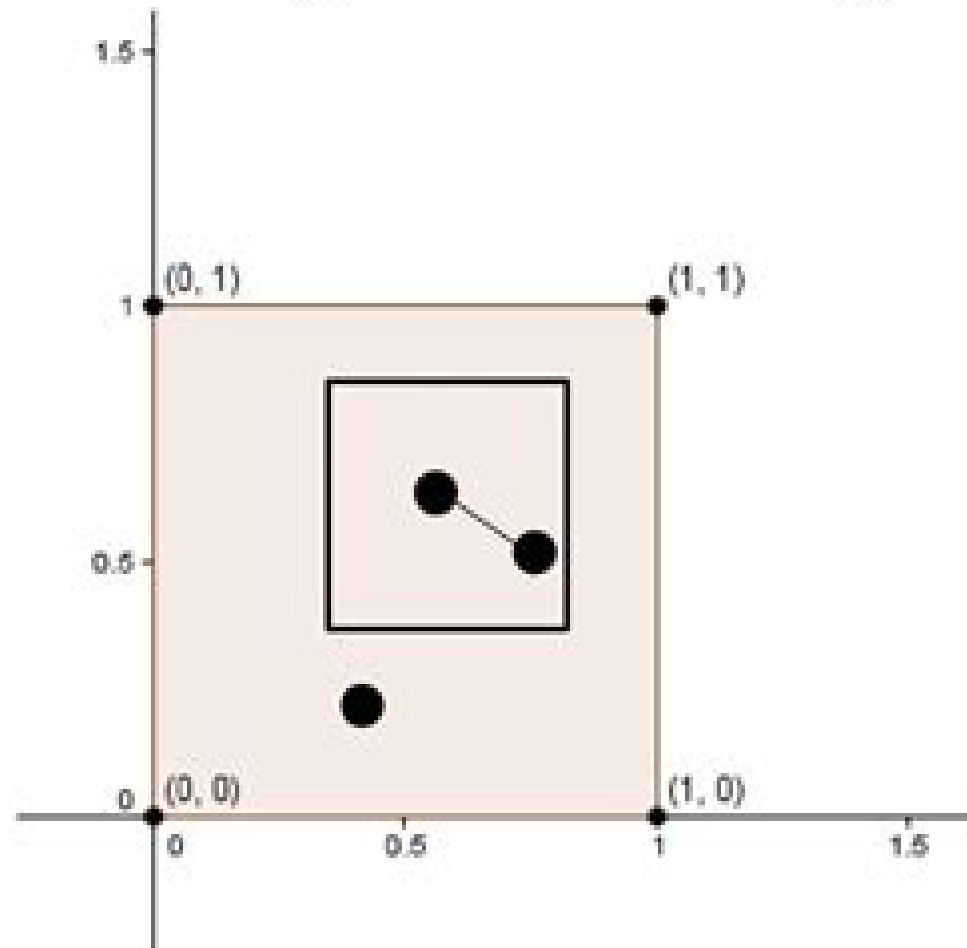


Random geometric graphs



Infinite random geometric graphs -
Anthony Bonato

Random Geometric Graphs

Clemens Wendtner



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 *Efficient Broadcast on Random Geometric Graphs*, 2009 A Random 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 $O(n/r)$ 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 $\Theta(n/r)$ **Random Geometric Graphs** Chen Avin, 2006 1A Bernoulli random graph $G(n, p)$ is a random graph with n nodes in which each edge is chosen independently at random with an edge probability p 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 $O(n \cdot \text{diam})$ where diam 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 $\Theta(\text{diam})$ which is asymptotically optimal *Linear Orderings of Random Geometric Graphs*, 1999 **Random Geometric Graphs and Their Applications in Neuronal Modelling** Fioralba Ajazi, 2018 Th se HEC 2018 *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 than 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. **Algorithms and Models for the Web-Graph** Anthony Bonato, Fan R.K. Chung, 2007-11-15. This book constitutes the refereed proceedings of the 5th International Workshop on Algorithms and Models for the Web Graph WAW 2007 held in San Diego CA USA in December 2007, colocated with WINE 2007, the Third International Workshop on Internet and Network Economics. The 13 revised full papers and five revised short papers presented were carefully reviewed and selected from a large pool of submissions for inclusion in the book. The papers address a wide variety of topics. **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. **Graph-Based Methods in Computer Vision: Developments and Applications** Bai, Xiao, Cheng, Jian, Hancock, Edwin, 2012-07-31. Computer vision, the science and technology of machines that see, has been a rapidly developing research area since the mid 1970s. It focuses on the understanding of digital input images in many forms including video and 3D range data. **Graph Based Methods in Computer Vision: Developments and Applications** presents a sampling of the research issues related to applying graph based methods in computer vision. These methods have been underutilized in the past but use must now be increased because of their ability to naturally and effectively represent image models and data. This publication explores current activity and future applications of this fascinating and ground breaking topic. **Algorithms for Sensor Systems** Prosenjit Bose, Leszek Antoni Gąsieniec, Kay Römer, Roger Wattenhofer, 2015-12-31. This book constitutes revised selected papers from the 11th International Symposium on Algorithms and Experiments for Wireless Sensor Networks ALGOSENSORS 2015 held in Patras, Greece in September 2015. The 16 full papers presented in this volume were carefully reviewed and selected from 30 submissions. They deal with algorithms, analysis, and problem complexity, computer communication networks, computation by abstract devices, and mathematics of computing. **Stochastic Processes: Modeling and Simulation** D.N. Shanbhag, C. Vidyampudi 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 theory, 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 **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

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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