



Random Geometric Graphs

Paul G. Blackwell, Mark Edmondson-Jones, Jonathan Jordan, University of Sheffield. Department of Probability and Statistics

Random Geometric Graphs:

Random Geometric Graphs Mathew Penrose, 2003 This monograph provides and explains the mathematics behind geometric graph theory Applications of this theory are used on the study of neural networks spread of disease astrophysics and spatial statistics

Random Geometric Graphs Mathew Penrose, 2003 **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

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 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 i_i 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 component is a diameter of the entire graph or the giant component for the regimes i or i_i respectively In other words for both regimes we derive the broadcast time to be $\Theta(\text{diam})$ which is asymptotically optimal

Asymptotic Properties of Random Geometric Graphs Sanatan Rai, 2005 Random Geometric Graphs and Their Applications in Neuronal Modelling Fioralba Ajazi, 2018 Th se HEC 2018 *Linear Orderings of Random Geometric Graphs*, 1999

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 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 The deal with algorithms analysis and problem complexity computer communication networks computation by abstract devices and mathematics of computing

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

High Dimensional Probability IX Radosław Adamczak, Nathael Gozlan, Karim Lounici, Mokshay Madiman, 2023-06-05 This volume collects selected papers from the Ninth High Dimensional Probability Conference held virtually from June 15 19 2020 These papers cover a wide range of topics and demonstrate how high dimensional probability remains an active area of research with applications across many mathematical disciplines Chapters are organized around four general topics inequalities and convexity limit theorems stochastic processes and high dimensional statistics High Dimensional Probability IX will be a valuable resource for researchers in this area

Random Geometric Graphs and Data Structures Henry-Louis Melchior de Kergorlay, 2020

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

Recent Trends in Combinatorics Andrew Beveridge, Jerrold R. Griggs, Leslie Hogben, Gregg Musiker, Prasad Tetali, 2016-04-12 This volume presents some of the research topics discussed at the 2014 2015 Annual Thematic Program Discrete Structures Analysis and Applications at the Institute for Mathematics and its Applications during Fall 2014 when combinatorics was the focus Leading experts have written surveys of research problems making state of the art results more conveniently and widely available The three part structure of the volume reflects the three workshops held during Fall 2014 In the first part topics on extremal and probabilistic combinatorics are presented part two focuses on additive and analytic combinatorics and part three presents topics in geometric and enumerative combinatorics This book will be of use to those who research combinatorics directly or apply combinatorial methods to other fields

Random Graphs, Geometry and Asymptotic Structure Michael Krivelevich, Konstantinos Panagiotou, Mathew Penrose, Colin McDiarmid, 2016-04-25 The theory of random graphs is a vital part of the education of any researcher entering the fascinating world of combinatorics However due to their diverse nature the geometric and structural aspects of the theory often remain an obscure part of the formative study of young combinatorialists and probabilists Moreover the theory itself even in its most basic forms is often considered too advanced to be part of undergraduate curricula and those who are interested usually learn it mostly through self study covering a lot of its fundamentals but little of the more recent developments This book provides a self contained and concise introduction to recent developments and techniques for classical problems in the theory of random graphs Moreover it covers geometric and topological aspects of the theory and introduces the reader to the diversity and depth of the methods that have been devised in this context

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

Connectivity

and Centrality in Dense Random Geometric Graphs Alexander Paul Kartun-Giles,2017 *Random Geometric Graphs*
Tobias Müller,2006 Graph Drawing ,2004

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