

A Framework For Scientific Discovery Through Games

Seth Cooper

**Birgit Lugin, Catherine
Pelachaud, David Traum**



A Framework For Scientific Discovery Through Games Seth Cooper:

A Framework for Scientific Discovery through Video Games Seth Cooper, 2014-07-01 As science becomes increasingly computational the limits of what is computationally tractable become a barrier to scientific progress Many scientific problems however are amenable to human problem solving skills that complement computational power By leveraging these skills on a larger scale beyond the relatively few individuals currently engaged in scientific inquiry there is the potential for new scientific discoveries This book presents a framework for mapping open scientific problems into video games The game framework combines computational power with human problem solving and creativity to work toward solving scientific problems that neither computers nor humans could previously solve alone To maximize the potential contributors to scientific discovery the framework designs a game to be played by people with no formal scientific background and incentivizes long term engagement with a myriad of collaborative or competitive reward structures The framework allows for the continual coevolution of the players and the game to each other as players gain expertise through gameplay the game changes to become a better tool The framework is validated by being applied to proteomics problems with the video game Foldit Foldit players have contributed to novel discoveries in protein structure prediction protein design and protein structure refinement algorithms The coevolution of human problem solving and computer tools in an incentivized game framework is an exciting new scientific pathway that can lead to discoveries currently unreachable by other methods

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On Monotonicity Testing and the 2-to-2 Games Conjecture Dor Minzer, 2022-12-06 This book discusses two questions in Complexity Theory the Monotonicity Testing problem and the 2

to 2 Games Conjecture Monotonicity testing is a problem from the field of property testing first considered by Goldreich et al in 2000 The input of the algorithm is a function and the goal is to design a tester that makes as few queries to the function as possible accepts monotone functions and rejects far from monotone functions with a probability close to 1 The first result of this book is an essentially optimal algorithm for this problem The analysis of the algorithm heavily relies on a novel directed and robust analogue of a Boolean isoperimetric inequality of Talagrand from 1993 The probabilistically checkable proofs PCP theorem is one of the cornerstones of modern theoretical computer science One area in which PCPs are essential is the area of hardness of approximation Therein the goal is to prove that some optimization problems are hard to solve even approximately Many hardness of approximation results were proved using the PCP theorem however for some problems optimal results were not obtained This book touches on some of these problems and in particular the 2 to 2 games problem and the vertex cover problem The second result of this book is a proof of the 2 to 2 games conjecture with imperfect completeness which implies new hardness of approximation results for problems such as vertex cover and independent set It also serves as strong evidence towards the unique games conjecture a notorious related open problem in theoretical computer science At the core of the proof is a characterization of small sets of vertices in Grassmann graphs whose edge expansion is bounded away from 1

Embracing Interference in Wireless Systems Shyamnath Gollakota, 2014-06-01 The wireless medium is a shared resource If nearby devices transmit at the same time their signals interfere resulting in a collision In traditional networks collisions cause the loss of the transmitted information For this reason wireless networks have been designed with the assumption that interference is intrinsically harmful and must be avoided This book a revised version of the author's award winning Ph D dissertation takes an alternate approach Instead of viewing interference as an inherently counterproductive phenomenon that should be avoided we design practical systems that transform interference into a harmless and even a beneficial phenomenon To achieve this goal we consider how wireless signals interact when they interfere and use this understanding in our system designs Specifically when interference occurs the signals get mixed on the wireless medium By understanding the parameters of this mixing we can invert the mixing and decode the interfered packets thus making interference harmless Furthermore we can control this mixing process to create strategic interference that allow decodability at a particular receiver of interest but prevent decodability at unintended receivers and adversaries Hence we can transform interference into a beneficial phenomenon that provides security Building on this approach we make four main contributions We present the first WiFi receiver that can successfully reconstruct the transmitted information in the presence of packet collisions Next we introduce a WiFi receiver design that can decode in the presence of high power cross technology interference from devices like baby monitors cordless phones microwave ovens or even unknown technologies We then show how we can harness interference to improve security In particular we develop the first system that secures an insecure medical implant without any modification to the implant itself Finally we present a solution that establishes secure

connections between any two WiFi devices without having users enter passwords or use pre shared secret keys **Trust**

Extension as a Mechanism for Secure Code Execution on Commodity Computers Bryan Jeffrey Parno, 2014-06-01 As society rushes to digitize sensitive information and services it is imperative to adopt adequate security protections However such protections fundamentally conflict with the benefits we expect from commodity computers In other words consumers and businesses value commodity computers because they provide good performance and an abundance of features at relatively low costs Meanwhile attempts to build secure systems from the ground up typically abandon such goals and hence are seldom adopted In this book I argue that we can resolve the tension between security and features by leveraging the trust a user has in one device to enable her to securely use another commodity device or service without sacrificing the performance and features expected of commodity systems At a high level we support this premise by developing techniques to allow a user to employ a small trusted portable device to securely learn what code is executing on her local computer Rather than entrusting her data to the mountain of buggy code likely running on her computer we construct an on demand secure execution environment which can perform security sensitive tasks and handle private data in complete isolation from all other software and most hardware on the system Meanwhile non security sensitive software retains the same abundance of features and performance it enjoys today Having established an environment for secure code execution on an individual computer we then show how to extend trust in this environment to network elements in a secure and efficient manner This allows us to reexamine the design of network protocols and defenses since we can now execute code on endhosts and trust the results within the network Lastly we extend the user s trust one more step to encompass computations performed on a remote host e g in the cloud We design analyze and prove secure a protocol that allows a user to outsource arbitrary computations to commodity computers run by an untrusted remote party or parties who may subject the computers to both software and hardware attacks Our protocol guarantees that the user can both verify that the results returned are indeed the correct results of the specified computations on the inputs provided and protect the secrecy of both the inputs and outputs of the computations These guarantees are provided in a non interactive asymptotically optimal with respect to CPU and bandwidth manner Thus extending a user s trust via software hardware and cryptographic techniques allows us to provide strong security protections for both local and remote computations on sensitive data while still preserving the performance and features of commodity computers *Weaving Fire into Form* Brygg Ullmer, Orit Shaer, Ali Mazalek, Caroline Hummels, 2022-07-13 This book investigates multiple facets of the emerging discipline of Tangible Embodied and Embedded Interaction TEI This is a story of atoms and bits We explore the interweaving of the physical and digital toward understanding some of their wildly varying hybrid forms and behaviors Spanning conceptual philosophical cognitive design and technical aspects of interaction this book charts both history and aspirations for the future of TEI We examine and celebrate diverse trailblazing works and provide wide ranging conceptual and pragmatic tools toward weaving the animating

fires of computation and technology into evocative tangible forms We also chart a path forward for TEI engagement with broader societal and sustainability challenges that will profoundly re shape our children s and grandchildren s futures We invite you all to join this quest Effective Theories in Programming Practice Jayadev Misra,2022-12-27 Set theory logic discrete mathematics and fundamental algorithms along with their correctness and complexity analysis will always remain useful for computing professionals and need to be understood by students who want to succeed This textbook explains a number of those fundamental algorithms to programming students in a concise yet precise manner The book includes the background material needed to understand the explanations and to develop such explanations for other algorithms The author demonstrates that clarity and simplicity are achieved not by avoiding formalism but by using it properly The book is self contained assuming only a background in high school mathematics and elementary program writing skills It does not assume familiarity with any specific programming language Starting with basic concepts of sets functions relations logic and proof techniques including induction the necessary mathematical framework for reasoning about the correctness termination and efficiency of programs is introduced with examples at each stage The book contains the systematic development from appropriate theories of a variety of fundamental algorithms related to search sorting matching graph related problems recursive programming methodology and dynamic programming techniques culminating in parallel recursive structures

The Handbook on Socially Interactive Agents Birgit Lugin, Catherine Pelachaud, David Traum,2022-10-19 The Handbook on Socially Interactive Agents provides a comprehensive overview of the research fields of Embodied Conversational Agents Intelligent Virtual Agents and Social Robotics Socially Interactive Agents SIAs whether virtually or physically embodied are autonomous agents that are able to perceive an environment including people or other agents reason decide how to interact and express attitudes such as emotions engagement or empathy They are capable of interacting with people and one another in a socially intelligent manner using multimodal communicative behaviors with the goal to support humans in various domains Written by international experts in their respective fields the book summarizes research in the many important research communities pertinent for SIAs while discussing current challenges and future directions The handbook provides easy access to modeling and studying SIAs for researchers and students and aims at further bridging the gap between the research communities involved In two volumes the book clearly structures the vast body of research The first volume starts by introducing what is involved in SIAs research in particular research methodologies and ethical implications of developing SIAs It further examines research on appearance and behavior focusing on multimodality Finally social cognition for SIAs is investigated using different theoretical models and phenomena such as theory of mind or pro sociality The second volume starts with perspectives on interaction examined from different angles such as interaction in social space group interaction or long term interaction It also includes an extensive overview summarizing research and systems of human agent platforms and of some of the major application areas of SIAs such as education aging support autism and games **Logic, Automata,**

and Computational Complexity Bruce M. Kapron, 2023-05-22 Professor Stephen A Cook is a pioneer of the theory of computational complexity His work on NP completeness and the P vs NP problem remains a central focus of this field Cook won the 1982 Turing Award for his advancement of our understanding of the complexity of computation in a significant and profound way This volume includes a selection of seminal papers embodying the work that led to this award exemplifying Cook s synthesis of ideas and techniques from logic and the theory of computation including NP completeness proof complexity bounded arithmetic and parallel and space bounded computation These papers are accompanied by contributed articles by leading researchers in these areas which convey to a general reader the importance of Cook s ideas and their enduring impact on the research community The book also contains biographical material Cook s Turing Award lecture and an interview Together these provide a portrait of Cook as a recognized leader and innovator in mathematics and computer science as well as a gentle mentor and colleague *Spatial Gems, Volume 1* John Krumm, Andreas Züfle, Cyrus

Shahabi, 2022-08-08 This book presents fundamental new techniques for understanding and processing geospatial data These spatial gems articulate and highlight insightful ideas that often remain unstated in graduate textbooks and which are not the focus of research papers They teach us how to do something useful with spatial data in the form of algorithms code or equations Unlike a research paper *Spatial Gems Volume 1* does not focus on Look what we have done but rather shows Look what YOU can do With contributions from researchers at the forefront of the field this volume occupies a unique position in the literature by serving graduate students professional researchers professors and computer developers in the field alike

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