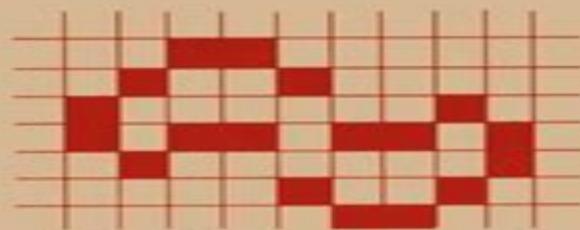




TRACKING THE AUTOMATIC ANT

AND OTHER MATHEMATICAL
EXPLORATIONS



DAVID GALE

A Collection of Mathematical Entertainments Columns from
The Mathematical
Intelligencer

Automatic Ant And Other Mathematical Explorations

Ensheng Dong



Automatic Ant And Other Mathematical Explorations:

Tracking the Automatic ANT David Gale, 2012-12-06 For those fascinated by the abstract universe of mathematics David Gale's columns in *The Mathematical Intelligencer* have been a prime source of entertainment Here Gale's columns are collected for the first time in book form Encouraged by the magazine's editor Sheldon Axler to write on whatever pleased him Gale ranged far and wide across the field of mathematics but frequently returned to favorite themes triangles tilings the mysterious properties of sequences given by simple recursions games and paradoxes and the particular automaton that gives this collection its title the automatic ant The level is suitable for those with some familiarity with mathematical ideas but great sophistication is not needed

Mathematical and Algorithmic Puzzles Pramod Ganapathi, 2024-05-29 This book presents serious mathematical and algorithmic puzzles that are mostly counterintuitive The presented puzzles are simultaneously entertaining challenging intriguing and haunting This book introduces its readers to counterintuitive mathematical ideas and revolutionary algorithmic insights from a wide variety of topics The presented solutions that are discovered by many mathematicians and computer scientists are highly counterintuitive and show supreme mathematical beauty These counterintuitive solutions are intriguing to the degree that they shatter our preconceived notions shake our long held belief systems debunk our fundamental intuitions and finally rob us of sleep and haunt us for a lifetime Multiple ways of attacking the same puzzle are presented which teach the application of elegant problem solving strategies

Tracking the Automatic Ant David Gale, 1998-05-01 *Matching, Dynamics and Games for the Allocation of Resources* M. Ali Khan, Nobusumi Sagara, Alexander J. Zaslavski, 2025-11-20 This research book dedicated to Professor David Gale on his 100th birthday compiles significant new findings by renowned experts in mathematical economics related to Gale's work The book is divided into three parts labelled as Economics and Games Economic Dynamics and Growth and Matching Contracts and Finance These parts are introduced by the two surviving editors in an exploratory attempt to answer the question Who is David Gale The first part contains 9 chapters covering topics such as visibility design in network games repeated games with tail measurable payoffs the existence of calibrated forecasts via the minimax theorem revealed preference theory the problem of obtaining permission when options partially ordered an alternative proof for the existence of Haar measures on locally compact topological groups equilibria of nonlinear production consumption models systemic risk in financial networks and coalitional transferable utility extensions of the Gale Mas Colell economy The second part contains 7 chapters discussing topics like a generalization of the Pontryagin maximum principle in infinite horizon models the Robinson Shinkai Leontief optimal growth model dynamic CES production functions with a continuum of vintages of capital inputs across varying substitution elasticities a two country dynamic model static and dynamic equilibrium in the Walrasian tradition duality theorems in linear programming and the turnpike phenomenon in the generalized von Neumann Gale model The third part comprises 4 chapters exploring the relationship between stable and weakly setwise stable outcomes in many to many

matching with contracts a version of Gale and Shapley's marriage market with a continuum of agents the existence of stable contract systems between two complementary groups e.g. workers and firms and the general notions of upper and lower variances initially introduced by Peter Walley for bounded random variables

Analytic Projective Geometry John Bamberg, Tim Penttila, 2023-10-19 This book introduces students to projective geometry from an analytic perspective mixing recent results from the past 100 years with the history of the field in one of the most comprehensive surveys of the subject The subject is taught conceptually with worked examples and diagrams to aid in understanding

Graph Theory Raluca Gera, Teresa W. Haynes, Stephen T. Hedetniemi, 2018-10-26 This second volume in a two volume series provides an extensive collection of conjectures and open problems in graph theory It is designed for both graduate students and established researchers in discrete mathematics who are searching for research ideas and references Each chapter provides more than a simple collection of results on a particular topic it captures the reader's interest with techniques that worked and failed in attempting to solve particular conjectures The history and origins of specific conjectures and the methods of researching them are also included throughout this volume Students and researchers can discover how the conjectures have evolved and the various approaches that have been used in an attempt to solve them An annotated glossary of nearly 300 graph theory parameters 70 conjectures and over 600 references is also included in this volume This glossary provides an understanding of parameters beyond their definitions and enables readers to discover new ideas and new definitions in graph theory The editors were inspired to create this series of volumes by the popular and well attended special sessions entitled My Favorite Graph Theory Conjectures which they organized at past AMS meetings These sessions were held at the winter AMS MAA Joint Meeting in Boston January 2012 the SIAM Conference on Discrete Mathematics in Halifax in June 2012 as well as the winter AMS MAA Joint Meeting in Baltimore in January 2014 at which many of the best known graph theorists spoke In an effort to aid in the creation and dissemination of conjectures and open problems which is crucial to the growth and development of this field the editors invited these speakers as well as other experts in graph theory to contribute to this series

STACS 2001 Afonso Ferreira, Horst Reichel, 2003-06-29 This book constitutes the refereed proceedings of the 18th Annual Symposium on Theoretical Aspects of Computer Science STACS 2001 held in Dresden Germany in February 2001 The 46 revised full papers presented together with three invited papers were carefully reviewed and selected from a total of 153 submissions The papers address foundational aspects from all current areas of theoretical computer science including algorithms data structures automata formal languages complexity verification logic graph theory optimization etc

Unexpected Expectations Leonard M. Wapner, 2012-06-04 Unexpected Expectations The Curiosities of a Mathematical Crystal Ball explores how paradoxical challenges involving mathematical expectation often necessitate a reexamination of basic premises The author takes you through mathematical paradoxes associated with seemingly straightforward applications of mathematical expectation and shows how these unexpected contradictions may push you to reconsider the

legitimacy of the applications The book requires only an understanding of basic algebraic operations and includes supplemental mathematical background in chapter appendices After a history of probability theory it introduces the basic laws of probability as well as the definition and applications of mathematical expectation expected value E The remainder of the text covers unexpected results related to mathematical expectation including The roles of aversion and risk in rational decision making A class of expected value paradoxes referred to as envelope problems Parrondo s paradox how negative losing expectations can be combined to give a winning result Problems associated with imperfect recall Non zero sum games such as the game of chicken and the prisoner s dilemma Newcomb s paradox a great philosophical paradox of free will Benford s law and its use in computer design and fraud detection While useful in areas as diverse as game theory quantum mechanics and forensic science mathematical expectation generates paradoxes that frequently leave questions unanswered yet reveal interesting surprises Encouraging you to embrace the mysteries of mathematics this book helps you appreciate the applications of mathematical expectation a statistical crystal ball Listen to an interview with the author on NewBooksInMath.com

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