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Human Gene Evolution Balboa Press

Classical optimization methodologies fall short in very large and complex domains. In this book is suggested a different approach to optimization, an approach which is based on the 'blind' and heuristic mechanisms of evolution and population genetics. The genetic approach to optimization introduces a new philosophy to optimization in general, but particularly to engineering. By introducing the 'genetic' approach to robot trajectory generation, much can be learned about the adaptive mechanisms of evolution and how these mechanisms can solve real world problems. It is suggested further that optimization at large may benefit greatly from the adaptive optimization exhibited by natural systems when attempting to solve complex optimization problems, and that the determinism of classical optimization models may sometimes be an obstacle in nonlinear systems. This book is unique in that it reports in detail on an application of genetic algorithms to a real world problem, and explains the considerations taken during the development work. Furthermore, it addresses robotics in two new aspects: the optimization of the trajectory specification which has so far been done by human operators and has not received much attention for both automation and optimization, and the introduction of a heuristic strategy to a field predominated by deterministic strategies.

The Family Gene Everest Media LLC

The Biomedical Sciences Explained Series has been designed specifically to meet the needs of today's undergraduates studying biomedical sciences. Each volume in the series covers a key biomedical science topic, enabling the student to select the volumes required for their chosen topics, and build up their own 'personal textbook' in biomedical sciences. Using the BMS Explained Series students can build up their own 'personal textbook' in biomedical sciences, written specifically for them, rather than buying an 'all singing, all dancing' textbook which is too detailed when only studying a topic for one or two modules. Each volume provides a core of knowledge from which the student can then go on to more advanced study in their chosen subject.

Basic Genetics Univ of California Press

Hotdogs and funerals—right down the street from the funeral home sits a local ice-cream shop that also serves hamburgers, fries, and other artery clogging prizes the entire family can enjoy. However, nothing tasted as good as the footlong hotdog with sauce or as, us, locals would mispronounce, "a footer with sauce." Mm-hm, boy, howdy, are they good! When I would come home on leave from the air force, the first place I wanted to visit was that little ice-cream shop to order "a footer with sauce" or, in my younger days, "two footers with sauce." Again, I'm hard to kidnap. Don't judge. Well, wouldn't you know it, one evening when my sister and I were still young, Igene and Irene returned from the funeral home with two footers with sauce. Both footers were laid out in a cardboard box...much like the people in the funeral home now that I think about. In the box, each footer was placed inside the paper sleeve with the ice-cream store's name on it. Due to the ride home, the footers were a little cold, and some of the sauce were stuck to the paper sleeve as well as some of the bun. No matter the condition, my sister and I held our footers proudly as if we were going to raise them like flags before a defeated enemy after a long hard-fought battle with starvation. No doubt this is what the marines felt like raising the American flag after the Battle of Iwo Jima. Bombs burst in the air of our minds as we relished (no pun intended) in our wiener victory!

In the Name of Eugenics Elsevier

Speculates on the impact of certain advanced technologies on human society and their relationship with the natural world.

Head in the Game Cambridge University Press

Providing a new perspective on ADHD in adults, this compelling book analyzes findings from two major studies directed by leading authority Russell A. Barkley. Groundbreaking information is presented on the significant impairments produced by the disorder across major functional domains and life activities, including educational outcomes, work, relationships, health behaviors, and mental health. Thoughtfully considering the treatment implications of these findings, the book also demonstrates that existing diagnostic criteria do not accurately reflect the way ADHD is experienced by adults, and points the way toward developing better criteria that center on executive function deficits. Accessible tables, figures, and sidebars encapsulate the study results and methods.

Genetics HarperCollins

Susan Aldridge gives an accessible guide to the world of DNA and also explores the applications of genetic engineering in biotechnology. She takes the reader step by step, through the fascinating study of molecular biology. The first part of the book describes DNA and its function within living organisms. The second part explores genetic engineering and its applications to humans - such as gene therapy, genetic screening and DNA fingerprinting. The third part looks at the wider world of biotechnology and how genetic engineering can be applied to such problems as producing vegetarian cheese or cleaning up the environment. The final part explains how knowledge of the structure and functioning of genes sheds light on evolution and our place in the world. Although easy to read, this book does not avoid the science involved and should be read by anyone who wants to know about DNA and genetic engineering.

"Amen, I Say to You" Cambridge University Press

The advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics. Population Genetics and Microevolutionary Theory takes a modern approach to population genetics, incorporating modern molecular biology, species-level evolutionary biology, and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics. Logically organized into three main sections on population structure and history, genotype-phenotype interactions, and selection/adaptation Extensive use of real examples to illustrate concepts Written in a clear and accessible manner and devoid of complex mathematical equations Includes the author's introduction to background material as well as a conclusion for a handy overview of the field and its modern applications Each chapter ends with a set of review questions and answers Offers helpful general references and Internet links

The Language of Genes Guilford Press

A myth-busting, jaw-dropping, fun-filled tour through the science of your favorite fantastical world. Award-winning comedian and popular-science writer Helen Keen uncovers the astounding science behind the mystical, blood-soaked world of Game of Thrones, answering questions like: Is it possible to crush a person's head with your bare hands? What really happens when royal families interbreed? Does Cersei have Borderline Personality Disorder? What curious medical disorder does Hodor suffer from? And more. Join Keen as she investigates wildfire, ice walls, face transplants, and every wild feature of Westeros and beyond, revealing a magical world that may be closer to our own than we think. The Science of Game of Thrones is the ultimate guide to the epic series as well as the perfect gift for science-lovers and fans. So pour yourself a bowl of brown, climb on your beast of burden, and prepare yourself to see the Seven Kingdoms as you have never seen them before.

Solving Problems in Genetics WCB/McGraw-Hill

Please note: This is a companion version & not the original book. Sample Book Insights: #1 I had grown up in a family that didn't drink or smoke, but all food was considered okay. I had never taken care of my health, and by 2010, I was severely overweight. #2 The Daniel Plan is a lifestyle program based on biblical principles and five essential components: Food, Fitness, Focus, Faith, and Friends. It was designed to help members of my congregation lose weight. #3 The Daniel Plan is simple: dedicate your body to God, ask for his help, and get involved in a small group that will support you on your journey. Then start making healthy choices, such as replacing donuts with fresh fruit and making exercise a part of your daily routine. #4 The Bible has a lot to say about the importance of the body God gave you. It is talked about through the Bible. But for the sake of brevity, I will only highlight one chapter of the Bible that deals with the importance of the body: 1 Corinthians 6:12 - 20.

Population Genetics and Microevolutionary Theory Scion Pub Limited

**** The first edition (1980) is one of the 10 titles on quantitative genetics/population genetics cited in BCL3. For upper-level undergraduates and beginning graduate students with some background in genetics and population biology. Contains nine chapters with illustrations, boxed examples and problems. Annotation copyrighted by Book News, Inc., Portland, OR

Experimental Techniques in Bacterial Genetics Univ of Wisconsin Press

Crossover is a laboratory manual and computer program that work together to teach the principles of genetics. Designed to complement regular textbooks and classroom instruction, Crossover consists of thirty-five modules that can be tailored to fit genetics courses at several levels. Examples, interactive computer models, problems, and self-tests all help students understand difficult concepts and learn the basic mathematical skills needed to study contemporary theories of genetics, evolution, and breeding. The easy-to-use tutorial system lets students work at their own pace. Features include: - In-depth investigations of meiosis, genetic ratios, linkage mutation, natural selection, Hardy-Weinberg equilibrium, artificial selection, quantitative genetics, breeding methods, mating designs, plant patent law, and the use of molecular markers - A computer model that allows students to manipulate genetic parameters and compare outcomes. Students can observe evolution and artificial selection in action - A "Major Concepts" section at the beginning of each chapter to help students focus on the important material to be learned - A visual, easy-to-understand presentation of material - Exercises based on genetic data and analyses from actual research projects - Several stages of complexity within each area of instruction. - Instant grading of exercises - "Suggested Readings" at the end of each chapter to direct the student to related books, articles, and computer programs.

Hot Dogs and Funerals HarperCollins

A timely and revealing exploration of the world of human genetics by a famed geneticist explains the history of this scientific field while showing how genes help determine who we are and discussing the ramifications of new genetic discoveries.

Genetic Algorithms and Robotics Human Kinetics

This is a reprint of a classic which synthesizes population, genetics, and population genetics to form one of the first books on evolutionary ecology. Written by one of the foremost authorities in the field, it is designed as an introduction useful to readers at various levels from diverse backgrounds. It features balanced, readable coverage of both elementary and advanced topics that are essential to those interested in evolutionary biology, ecology, animal behavior, sociobiology, and paleobiology.

Our Common Future World Scientific

A boy in his late teens with incredible vertical jumping skills is the first nonclone drafted by an International Football League team in fifteen years since the league converted to clones-only players in 2041. Orphaned at birth and raised by Catholic nuns, Patrick Caravan is coveted by the San Jose Routers for his potential for turning end zone fade routes into touchdowns. The resistance to a nonclone playing in the league is fierce and widespread. In addition to coping with instant celebrity and the disdain of nearly everyone in the game, young Caravan is obsessed with learning the identity of his real parents. That leads to a complicated extortion plot against the mother superior who raised him. Young Caravan fulfills his potential, triumphing with a leaping fade route catch that tops the scoring but, because of complications, doesn't win his team the Super Bowl.

Genetic Algorithms in Optimisation, Simulation and Modelling Anchor Books

Genetics of Fitness and Physical Performance is the first comprehensive reference on the role of the genes in influencing individual variation in fitness and performance. This essential compendium reviews the past 25 years of accumulated evidence on the genetic basis of health- and performance-related fitness phenotypes. Focusing on the interests of sport scientists, the authors provide insight into the significance of this research on nearly every aspect of the study of human physical activity. The book presents the biological basis of heredity and explains the concepts and methods of genetic epidemiology and molecular biology that are necessary to understand this specialized field. With the rapid advances in molecular biology and the paradigms of human genetics, exercise scientists face a dynamic and vibrant new field. This book offers readers new opportunities to better understand atherosclerosis, noninsulin dependent diabetes, obesity, and hypertension by searching for single gene effects and identifying susceptibility genes. The authors review the evidence on the role of the genes for human traits as it pertains to the exercise science field. And they explore the scientific, practical, and ethical issues that confront exercise scientists as progress is made in this field. Genetics of Fitness and Physical Performance is vital reading for scholars in the field of exercise and sport science to understand how recent discoveries in genetics might shape their future research.

Genetics and Molecular Biology Xlibris Corporation

Amen Code diagrams the original sacred teachings written prior to the formation of Christianity, reveals the process of how all things come into being from the invisible realms, reveals the divine map of the heavens and our path to our true home, and is a thorough analysis and mathematical confirmation of Jesus' advanced teachings. Jesus' original teachings were found in Egypt, taught only to his disciples, and contain elements of mathematics and Greek and Egyptian culture. Jesus' sacred teachings reveal the secrets of the heavens, and the process of creation to confirm the invisible and visible multiverse and our purpose while in the material world. 839 pp. Full color. More than 400 images.

Microbiology Australia Little, Brown

Rancher Jesse Tullett has had enough. Too many mornings bring the unwelcome sight of another cattle mutilation on his ranch. This time they left a clue. This time Jesse resolves to launch his own investigation. For the people who have called the arid lands of New Mexico home for millennia, the knowledge that something is festering in the deep underground caverns and cave systems below, is an accepted fact of life. Navaho tribal police officers, Joe Mist and Cyril Lightfoot, explored these chasms as boys and had seen things ... alien to them. Disillusioned and world weary, Father Ted Ross settled in the small village of San Leone,

New Mexico. Over the years he had seen things, and needed to distance himself from the evil infiltrating his beloved catholic church. What he hadn't counted on, was the demons he was about to confront, where bigger than the ones he had left at the Vatican. John Sampras is a computer genius. He has been sent to Pine Gap, Australia, to install a new update on one of the worlds best kept secrets. What he finds, challenges every known ethic he was taught to believe in. Sampras knows the decision he makes could very well be the catalyst to destroy not only the New World Order, but all of humanity. Independently, this ragtag band of strangers hardly make a ripple. Collectively they are humanities only hope. AMEN is the End Game. The time where politics, religion and survival all grapple for centre stage. It is the Time of the End of this system of things - Armageddon is on our doorstep.

The Science of Game of Thrones IOS Press

The science of genetics has undergone a period of very rapid and significant development in recent years, and the area of poultry genetics has been no exception. This book provides a balanced and up-to-date account of all the major areas of this subject from Mendelian to modern molecular genetics. The book begins by tracing the evolution of Gallus domesticus from its avian ancestors. Subsequent chapters cover important aspects of poultry genetics, including cytogenetics, transmission genetics, gene mapping, sex linkage, lethal genes, genetics of feathering and plumage, and quantitative genetics. In each chapter, a concise explanation of the genetic principles is followed by a full discussion illustrated by key examples. In the latter part of the book, recent advances in gene cloning and sequencing are examined. The impact of these exciting new developments on our understanding of gene structure and organisation, immunogenetics and the evolution of proteins is assessed. Finally, the uses of transgenic techniques and their implications are discussed. This book provides a clear and useful survey of the genetics and evolution of the domestic fowl, which will be of interest to postgraduate students and researchers in the fields of genetics, agriculture and veterinary medicine, as well as to poultry breeders (both commercial and non-commercial).

Genetics and Evolution of the Domestic Fowl AmenCode.com

An intriguing blend of science and sports that explores how some of the worlds greatest athletes are utilizing the last frontier of performance-enhancing technology—the mental mapping and engineering of their own brains—for peak performance, and what it means for the future of athleticism, sports, and the rest of us. Moneyball showed how statistics were revolutionizing baseball. The Sports Gene revealed the role genetics play in sports. Now, Head in the Game examines the next evolution: how mental engineering—the manipulation of the cognitive processes of the brain—can make gifted athletes even better. For years, technology—from EEG (electroencephalogram) to fMRI (Functional magnetic resonance imaging) to video games, tablets, and personal data collection devices—have been used with soldiers to understand their physical and mental functioning. Touching on brain functionality vital to sports—both the "hard" (coordination, stimuli processing, functional memory, decision-making, load-processing) and the "soft" (emotion regulation, visualization, psychology, mindfulness)—this tech is now being adopted by scores of championship franchises and top athletes—including scrappy underdogs forced to innovate and elite players looking for an advantage. Star NFL quarterbacks Russell Wilson and Tom Brady, the NBA 's Kyle Korver, and Olympic volleyball champion Kerri Walsh are using mental engineering to up their game. It 's not luck that has transformed the San Antonio Spurs into a formidable force—it 's science, Sneed demonstrates. As mental engineering becomes widespread—taking athletes who are already freaks of nature and making them better—the impact on the multi-billion dollar sports industry will be dramatic on players, managers, trainers, owners, and even fans. Interviewing athletes and coaches, visiting training camps and sports science firms, Brandon Sneed offers a firsthand, on-the-ground look at this exciting breakthrough that has the potential to transform to transform the game—and all our lives.

Genetics of Fitness and Physical Performance Sinauer Associates, Incorporated

A riveting medical mystery about a young woman 's quest to uncover the truth about her likely fatal genetic disorder that opens a window onto the exploding field of genomic medicine When Joselin Linder was in her twenties her legs suddenly started to swell. After years of misdiagnoses, doctors discovered a deadly blockage in her liver. Struggling to find an explanation for her unusual condition, Joselin compared the medical chart of her father—who had died from a mysterious disease, ten years prior—with that of an uncle who had died under similarly strange circumstances. Delving further into the past, she discovered that her great-grandmother had displayed symptoms similar to hers before her death. Clearly, this was more than a fluke. Setting out to build a more complete picture of the illness that haunted her family, Joselin approached Dr. Christine Seidman, the head of a group of world-class genetic researchers at Harvard Medical School, for help. Dr. Seidman had been working on her family 's case for twenty years and had finally confirmed that fourteen of Joselin 's relatives carried something called a private mutation—meaning that they were the first known people to experience the baffling symptoms of a brand new genetic mutation. Here, Joselin tells the story of their gene: the lives it claimed and the future of genomic medicine with the potential to save those that remain. Digging into family records and medical history, conducting interviews with relatives and friends, and reflecting on her own experiences with the Harvard doctor, Joselin pieces together the lineage of this deadly gene to write a gripping and unforgettable exploration of family, history, and love. A compelling chronicle of survival and perseverance, The Family Gene is an important story of a young woman reckoning with her father 's death, her own mortality, and her ethical obligations to herself and those closest to her.