LIMITED ACCESS BASKETBALL ANALYTICS OBJECTIVE AND EFFICIENT STRATEGIES FOR UNDERSTANDING HOW TEAMS WIN

Basketball Analytics

Basketball Analytics is a must-read for any sports analytics enthusiast or student of the game of basketball. Authors Stephen Shea, Ph.D. (Professor of Mathematics) and Christopher Baker (Software Engineer) utilize their unique skill-set to introduce original metrics for analyzing player performance, team style and team construction in the NBA. While demonstrating an awareness of the industry's best ideas, the authors present original, objective and efficient strategies for understanding how teams win. New player performance statistics include Offensive Efficiency (OE), Efficient Offensive Production (EOP), Defensive Stops Gained (DSG), and Approximate Value (AV). OE reflects a player's ability to make the most fundamental offensive decisions. EOP adjusts a player's points and assists based on his efficiency. DSG gives a complete measure of a player's defensive contributions, without relying on individual player statistics like blocks and steals. AV is a measure of total player performance that rivals any publicly available statistic. Basketball Analytics introduces groundbreaking metrics on player involvement in the offense. Point, Rebound and Assist Balance aggregate player usage in these critical statistics. New studies on the NBA show whether teams should strive for balance or unbalance. An NBA draft pick value study determines the average value of each pick and the likelihood of landing a star or role player with each draft position. The results of this study are used to discuss topics including the biggest draft blunders and steals, the draft success of each NBA team, and the quality of each draft class dating back to 1977. This valuable understanding of the NBA Draft creates a foundation for discussing various approaches to team development and construction. Additionally, the authors discuss redefining the positions on the court, unpredictability in the game, data visualization, and applications of spatial tracking technology. There are many intensely debated questions surrounding the NBA today. Who are the most valuable players, and how do they compare to past greats? Which players have the greatest impact on their team's defense? Should Kobe Bryant be concerned with getting his teammates involved in the offense? How do offenses differ in the clutch, and which players thrive in these situations? How difficult is it for a team to rebuild through the draft? Basketball Analytics introduces new statistics and new concepts to explore these questions and more.

Basketball Analytics

Equipped with new spatial tracking data collected by SportVU and others, Basketball Analytics investigates game strategy, player evaluation, player types, and prospect potential. Author Stephen Shea, Ph.D. introduces new measures of a player's scoring and playmaking efficiency, quantifies the spacing in an offense and the stretch of a defense, and demonstrates several ways in which the NBA game has changed over the years. He also reveals the full methodology behind popular topics from the blog, BasketballAnalyticsBook.com, such as the College Prospect Rating System and the periodic tables of NBA elements. The author presents a modern viewpoint on basketball analytics' most fundamental principles and demonstrates the power of the industry's latest statistical breakthroughs. Basketball Analytics is a must-read for any sports analytics enthusiast.

Basketball on Paper

Journey \"inside the numbers\" for an exceptional set of statistical tools and rules that can help explain the

winning, or losing, ways of a basketball team. Basketball on Paper doesn't diagram plays or explain how players get in shape, but instead demonstrates how to interpret player and team performance. Dean Oliver highlights general strategies for teams when they're winning or losing and what aspects should be the focus in either situation. He describes and quantifies the jobs of team leaders and role players, then discusses the interactions between players and how to achieve the best fit. Oliver conceptualizes the meaning of teamwork and how to quantify the value of different types of players working together. He examines historically successful NBA teams and identifies what made them so successful: individual talent, a system of putting players together, or good coaching. Oliver then uses these statistical tools and case studies to evaluate the best players in history, such as Magic Johnson, Wilt Chamberlain, Bill Russell, and Charles Barkley and how they contributed to their teams' success. He does the same for some of the NBA's \"oddball\" players-Manute Bol, Muggsy Bogues, and Dennis Rodman and for the WNBA's top players. Basketball on Paper is unique in its incorporation of business and analytical concepts within the context of basketball to measure the value of players in a cooperative setting. Whether you're looking for strategies or new ideas to throw out while watching the ballgame at a sports bar, Dean Oliver'sBasketball on Paper will give you amazing new insights into teamwork, coaching, and success.

Basketball Data Science

Using data from one season of NBA games, Basketball Data Science: With Applications in R is the perfect book for anyone interested in learning and applying data analytics in basketball. Whether assessing the spatial performance of an MBA player's shots or doing an analysis of the impact of high pressure game situations on the probability of scoring, this book discusses a variety of case studies and hands-on examples using a custom R package. The codes are supplied so readers can reproduce the analyses themselves or create their own. Assuming a basic statistical knowledge, Basketball Data Science with R is suitable for students, technicians, coaches, data analysts and applied researchers. Features: · One of the first books to provide statistical and data mining methods for the growing field of analytics in basketball. · Presents tools for modelling graphs and figures to visualize the data. · Includes real world case studies and examples, such as estimations of scoring probability using the Golden State Warriors as a test case. · Provides the source code and data so readers can do their own analyses on NBA teams and players.

How to Watch Basketball Like a Genius

A brilliant, entertaining deconstruction of basketball, drawing on the expertise of board-game creators, magicians, therapists, and more Basketball is the second-most popular sport in the world—an insanely complicated game built on a combination of athleticism, craftiness, rules, intangibles, and superstardom. However, while it's enjoyable to watch, the real reason it works is because it's a game of culture, art, and all the things that make us human. How to Watch Basketball Like a Genius deconstructs the sport from top to bottom and then puts it back together again, detailing its intricacies through reporting and dozens of interviews with experts. These experts, however, are a diverse group: wine critics weighing in on LeBron's ability to delegate on the fly, magicians analyzing Chris Paul's mystifying dribbling techniques, cartographers breaking down Steph Curry's deadeye three-point shooting. Every chapter treats basketball to a multi-disciplined study that adventures far beyond the lines of the court, examining key elements of the sport from some surprising and revealing angles. There's a reason it has conquered the world, and every game is a chance to learn about pop culture, fashion, history, science, art, and anything else that bounces our way.

Thinking Basketball

Are top scorers really the most valuable players? Are games decided in the final few minutes? Does the team with the best player usually win?Thinking Basketball challenges a number of common beliefs about the game by taking a deep dive into the patterns and history of the NBA. Explore how certain myths arose while using our own cognition as a window into the game's popular narratives. New basketball concepts are introduced, such as power plays, portability and why the best player shouldn't always shoot. Discover how the box score

can be misleading, why \"closers\" are overrated and how the outcome of a game fundamentally alters our memory. Behavioral economics, traffic paradoxes and other metaphors highlight this thought-provoking insight into the NBA and our own thinking. A must-read for any basketball fan -- you'll never view the sport, and maybe the world, the same again.

The Book of Basketball

NEW YORK TIMES BESTSELLER • The NBA according to The Sports Guy—now updated with fresh takes on LeBron, the Celtics, and more! Foreword by Malcom Gladwell • "The work of a true fan . . . it might just represent the next phase of sports commentary."—The Atlantic Bill Simmons, the wildly opinionated and thoroughly entertaining basketball addict known to millions as ESPN's The Sports Guy, has written the definitive book on the past, present, and future of the NBA. From the age-old question of who actually won the rivalry between Bill Russell and Wilt Chamberlain to the one about which team was truly the best of all time, Simmons opens—and then closes, once and for all—every major pro basketball debate. Then he takes it further by completely reevaluating not only how NBA Hall of Fame inductees should be chosen but how the institution must be reshaped from the ground up, the result being the Pyramid: Simmons's one-of-a-kind five-level shrine to the ninety-six greatest players in the history of pro basketball. And ultimately he takes fans to the heart of it all, as he uses a conversation with one NBA great to uncover that coveted thing: The Secret of Basketball. Comprehensive, authoritative, controversial, hilarious, and impossible to put down (even for Celtic-haters), The Book of Basketball offers every hardwood fan a courtside seat beside the game's finest, funniest, and fiercest chronicler.

Machine Learning and Data Mining for Sports Analytics

This book constitutes the refereed post-conference proceedings of the 5th International Workshop on Machine Learning and Data Mining for Sports Analytics, MLSA 2018, colocated with ECML/PKDD 2018, in Dublin, Ireland, in September 2018. The 12 full papers presented together with 4 challenge papers were carefully reviewed and selected from 24 submissions. The papers present a variety of topics, covering the team sports American football, basketball, ice hockey, and soccer, as well as the individual sports cycling and martial arts. In addition, four challenge papers are included, reporting on how to predict pass receivers in soccer.

Basketball Stats Vs Analytics

A quick and easy read to help you take your understanding of basketball to the next level! This new third version of the book is newly formatted and full of updated information from the 2023 NBA season. Basketball is one of the most popular sports in the world, yet most fans don't know much about the details of the game. Stats vs Analytics will provide an introduction to the world of analytics and provide insight into the story of the game that goes beyond the box score. Without overcomplicating the issues Basketball Stats vs Analytics will give you insight into the metrics of the modern game. Highly competitive teams in leagues all over the world rely on analytics to scout opponents and find talent. Get a brief introduction to why some players are highly valued, even though the standard box scores may not show big numbers, learn what is the relationship between stats and analytics, gain more insight into the value of the players you like to watch and see how coaches and GMs use analytics to help them win. Learn the basics about: The Game's Evolution: Explore the fascinating history of basketball statistics and how they've evolved over the years. From the days of paper scorecards to cutting-edge player tracking technology, discover the journey that has transformed the sport we love. The Analytics Revolution: Uncover the hidden truths of basketball analytics. Learn how shot selection, player evaluation, defensive strategies, and even injury prevention have been revolutionized by the power of data-driven insights. Gain a deep understanding of the game's intricacies. A Competitive Edge: Discover how analytics can inform better coaching decisions, optimize player performance, and elevate your basketball IQ to the next level. Your Playbook: \"Basketball Stats vs Analytics\" equips you with the playbook for navigating the data-driven world of basketball. With a comprehensive look at player impact

metrics, shot selection strategies, and ethical considerations, you'll be prepared to embrace the future of the game. Learn about: True Shooting Percentage (TS%) Effective Shooting Percentage (EFG%) Points Per Possession (PPP) Player Efficiency Rating (PER) Usage Rate or Percentage (USG%) Offensive Rating (ORtg) Offensive and Defensive Rebound Rate (ORB% and DRB%) Assist and Turnover Rate (AST% and TOV%) Steal and Block Rate Points Per 100 Possessions Offensive and Defensive Efficiency and more... Basketball Stats vs Analytics: A Quick and Easy Beginners Guide to Basketball Analytics is a must read for anyone hoping to share in basketball conversations with astute friends and colleagues. Or a great read for people new to the game that want to understand a little bit more of why things happen and what makes a team or player great.

Numbers Don't Lie

A typical NBA game can yield approximately 2,800 statistical events in thirty-two different categories. In Numbers Don't Lie Yago Colás started with a simple question: How did basketball analytics get from counting one stat, the final score, to counting thousands? He discovered that what we call "basketball"—rules, equipment, fundamental skills, techniques, tactics, strategies—has changed dramatically since its invention and today encompasses many different forms of play, from backyards and rec leagues to the NBA Finals. Numbers Don't Lie explores the power of data to tell stories about ourselves and the world around us. As advanced statistical methods and big-data technologies transform sports, we now have the power to count more things in greater detail than ever before. These numbers tell us about the past, present, and future that shape how basketball is played on the floor, decisions are made in front offices, and the sport is marketed and consumed. But what is the relationship between counting and what counts, between quantification and value? In Numbers Don't Lie Colás offers a three-part history of counting in basketball. First, he recounts how big-data basketball emerged in the past twenty years, examines its current practices, and analyzes how it presents itself to the public. Colás then situates big data within the deeper social, cultural, and conceptual history of counting in basketball and beyond and proposes alternative frameworks of value with which we may take fuller stock of the impact of statistics on the sport. Ultimately, Colás challenges the putative objectivity of both quantification and academic writing by interweaving through this history a series of personal vignettes of life at the intersection of basketball, counting, and what counts.

Sports Analytics and Data Science

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This up-to-the-minute reference will help you master all three facets of sports analytics — and use it to win! Sports Analytics and Data Science is the most accessible and practical guide to sports analytics for everyone who cares about winning and everyone who is interested in data science. You'll discover how successful sports analytics blends business and sports savvy, modern information technology, and sophisticated modeling techniques. You'll master the discipline through realistic sports vignettes and intuitive data visualizations–not complex math. Every chapter focuses on one key sports analytics application. Miller guides you through assessing players and teams, predicting scores and making game-day decisions, crafting brands and marketing messages, increasing revenue and profitability, and much more. Step by step, you'll learn how analysts transform raw data and analytical models into wins: both on the field and in any sports business.

Sports Data Mining

Data mining is the process of extracting hidden patterns from data, and it's commonly used in business, bioinformatics, counter-terrorism, and, increasingly, in professional sports. First popularized in Michael Lewis' best-selling Moneyball: The Art of Winning An Unfair Game, it is has become an intrinsic part of all professional sports the world over, from baseball to cricket to soccer. While an industry has developed based on statistical analysis services for any given sport, or even for betting behavior analysis on these sports, no research-level book has considered the subject in any detail until now. Sports Data Mining brings together in

one place the state of the art as it concerns an international array of sports: baseball, football, basketball, soccer, greyhound racing are all covered, and the authors (including Hsinchun Chen, one of the most esteemed and well-known experts in data mining in the world) present the latest research, developments, software available, and applications for each sport. They even examine the hidden patterns in gaming and wagering, along with the most common systems for wager analysis.

A Dream Job as a Sports Statistician

Those who love sports and working with statistics can combine those two passions to forge a career. This book outlines a pathway for readers seeking to become sports statisticians. It cites what steps should be taken at the middle school and high school levels. It explains which courses one should take in college to move closer to the goal. It points out the myriad of jobs being created in a growing field. The road to a career as a sports statistician is wide open. This book will help readers continue on that road until they reach their destination.

The Midrange Theory

From one of basketball's foremost experts in the field of analytics, a fascinating new perspective on how to watch and think about the game. At its core, the goal of any basketball team is relatively simple: take and make good shots while preventing the opponent from doing the same. But what is a \"good\" shot? Are all good shots created equally? And how might one identify players who are more or less likely to make and prevent those shots in the first place? The concept of basketball \"analytics,\" for lack of a better term, has been lauded, derided, and misunderstood. The incorporation of more data into NBA decision-making has been credited—or blamed—for everything from the death of the traditional center to the proliferation of three-point shooting to the alleged abandonment of the area of the court known as the midrange. What is beyond doubt is that understanding its methods has never been more important to watching and appreciating the NBA. In The Midrange Theory, Seth Partnow, NBA analyst for The Athletic and former Director of Basketball Research for the Milwaukee Bucks, explains how numbers have affected the modern NBA game, and how those numbers seek not to \"solve\" the game of basketball but instead urge us toward thinking about it in new ways. The relative value of Russell Westbrook's triple-doubles Why some players succeed in the playoffs while others don't How NBA teams think about constructing their rosters through the draft and free agency The difficulty in measuring defensive achievement The fallacy of the \"quick two\" From shot selection to evaluating prospects to considering aesthetics and ethics while analyzing the box scores, Partnow deftly explores where the NBA is now, how it got here, and where it might be going next.

Sports Business Management

This new edition of a widely adopted textbook equips students with a comprehensive understanding of the sport industry. With a focus on management, strategy, marketing and finance, the decision-making approach of the book emphasizes key concepts while translating them into practice. Content specific to each of the vital stakeholders in the sport business is included. Foster, O'Reilly and Dávila present a set of modular chapters supported with international examples. Supplementary materials available to instructors include mini-cases, full case studies, activities, in-class lecture materials and exercises to help students apply the decision-making approach to real-world situations. The book includes content about sport organizations, such as the Olympic Games, FIFA World Cup, the European Premier Leagues and Major North American Professional Sport Leagues. Stanford cases are updated for the second edition and entirely new chapters cover the latest topics, including esports, sports gambling, fantasy sports and crisis management. This is an ideal textbook for upper-level undergraduate and postgraduate students of sports business and management.

Understanding Sport Organizations

Understanding Sport Organizations provides a strong foundation in organizational theory and organizational

behavior and addresses how that theory is applied in a real-world context. It engages readers by providing opportunities to discover the theory in practice.

Hockey Analytics

A fraction of a second can be the difference between a one-timer finding the back of the net and a blocked shot that starts transition the other way. In the fast and fluid game of hockey, time and space drive success. But hockey analytics hasn't appreciated these two most important factors. It hasn't respected the complexity of the game...until now. Backed by the findings of an original study never before released to the public, Hockey Analytics demonstrates that-whether it is a failed pinch in the offensive zone, a missed rotation in the defensive zone or other blunder-the vast majority of goals are scored when the defense's positioning is compromised. The authors identify the actions that give players the time and space to read, react and execute. Their findings will shock even the most experienced hockey minds and call into question strategies regularly employed by the game's best coaches. It is simple, actionable and nothing like you've seen before. Whether you're a fan, player or coach, Hockey Analytics will change how you experience hockey.

Performance Analysis in Sport

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Sports Finance

This book is a printed edition of the Special Issue \"Sports Finance\" that was published in IJFS

Introduction to Probability

Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment.

Bayesian Data Analysis, Third Edition

Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. Bayesian Data Analysis, Third Edition continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-

avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page.

Chasing Perfection

Chasing Perfection goes behind the scenes of the multi-million dollar, high-stakes world of basketball player development, research and analysis, and the often secretive, cutting-edge methods that NBA franchises use to turn less-expensive, supporting players into vital parts of championship teams. NBA superstars push as close to perfection as we're likely to see, but they are few and far between. The farther you get from the league's top echelon of talent, the more it's up to the players—and their teams—to develop and utilize their strengths while diminishing and masking their weaknesses as much as possible. There are no perfect basketball players, but there are plenty of perfected ones, who start with a basis of skill and physical ability and then are refined further and further in order to move closer and closer to their absolute potential. In Chasing Perfection, national sportswriter Andy Glockner reveals that, though the concept of player improvement is as old as basketball itself, the current era of Big Data analytics in the NBA is transforming that process more quickly and aggressively than anything we have seen before. Players are learning more and more about themselves through video and data visualization, seeing how things like diet and sleep can impact their performance, and learning how having healthy joints and role-specific workout plans are lengthening and improving their careers. Teams are internalizing the same lessons, as well as figuring out how to better implement optimal on-court strategies, how to refine their approaches to player acquisition and how to gauge the varying values and success rates of different, crucial team-building strategies. It's an absolutely fascinating time to be a fan, as the marriage of basketball and technology is bringing two of our most popular and competitive worlds together in compelling fashion. Using the 2014–15 NBA season as a prism to explore this mesh of sport and science, Glockner offers detailed perspective from NBA players, coaches, team management, and media, offering a comprehensive insider's view of how analytics are shaping the basketball we watch, and how those who are lagging behind in the technology race already are feeling the competitive hit.

The Data Science Design Manual

This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science

Moneyball: The Art of Winning an Unfair Game

\"This delightfully written, lesson-laden book deserves a place of its own in the Baseball Hall of Fame.\" —Forbes Moneyball is a quest for the secret of success in baseball. In a narrative full of fabulous characters and brilliant excursions into the unexpected, Michael Lewis follows the low-budget Oakland A's, visionary general manager Billy Beane, and the strange brotherhood of amateur baseball theorists. They are all in search of new baseball knowledge—insights that will give the little guy who is willing to discard old wisdom the edge over big money.

Research Methods for Sports Studies

This comprehensive, accessible and practical textbook provides a complete grounding in both qualitative and quantitative research methods for the sports studies student. The book offers the reader a step-by-step guide to the research process, from designing a research project, to collecting and analyzing data, to reporting the research, and is richly illustrated throughout with sport-related case-studies and examples from around the world. Now in a fully revised and updated new edition, the book covers key topics such as: choosing an appropriate research design undertaking a literature review key research techniques, including questionnaires, interviews, content analysis and ethnographic studies data analysis, including an introduction to SPSS, as well as guides to descriptive and inferential statistics writing a research report ethical issues in sports research. Research Methods in Sports Studies is designed to be a complete and self-contained companion to any research methods course and contains a wealth of useful features, such as highlighted definitions of key terms, revision questions, practical research exercises, and a companion website with web links, multiple choice questions, powerpoint slides, and other learning resources. The book is also an invaluable reference for any student undertaking a dissertation or research project as part of their studies. Visit the companion website at: www.routledge.com/textbooks/9780415493932

Business and Consumer Analytics: New Ideas

This two-volume handbook presents a collection of novel methodologies with applications and illustrative examples in the areas of data-driven computational social sciences. Throughout this handbook, the focus is kept specifically on business and consumer-oriented applications with interesting sections ranging from clustering and network analysis, meta-analytics, memetic algorithms, machine learning, recommender systems methodologies, parallel pattern mining and data mining to specific applications in market segmentation, travel, fashion or entertainment analytics. A must-read for anyone in data-analytics, marketing, behavior modelling and computational social science, interested in the latest applications of new computer science methodologies. The chapters are contributed by leading experts in the associated fields.The chapters cover technical aspects at different levels, some of which are introductory and could be used for teaching. Some chapters aim at building a common understanding of the methodologies and recent application areas including the introduction of new theoretical results in the complexity of core problems. Business and marketing professionals may use the book to familiarize themselves with some important foundations of data science. The work is a good starting point to establish an open dialogue of communication between professionals and researchers from different fields. Together, the two volumes present a number of different new directions in Business and Customer Analytics with an emphasis in personalization of services, the development of new mathematical models and new algorithms, heuristics and metaheuristics applied to the challenging problems in the field. Sections of the book have introductory material to more specific and advanced themes in some of the chapters, allowing the volumes to be used as an advanced textbook. Clustering, Proximity Graphs, Pattern Mining, Frequent Itemset Mining, Feature Engineering, Network and Community Detection, Network-based Recommending Systems and Visualization, are some of the topics in the first volume. Techniques on Memetic Algorithms and their applications to Business Analytics and Data Science are surveyed in the second volume; applications in Team Orienteering, Competitive Facility-

location, and Visualization of Products and Consumers are also discussed. The second volume also includes an introduction to Meta-Analytics, and to the application areas of Fashion and Travel Analytics. Overall, the two-volume set helps to describe some fundamentals, acts as a bridge between different disciplines, and presents important results in a rapidly moving field combining powerful optimization techniques allied to new mathematical models critical for personalization of services. Academics and professionals working in the area of business anyalytics, data science, operations research and marketing will find this handbook valuable as a reference. Students studying these fields will find this handbook useful and helpful as a secondary textbook.

High-Performance Training for Sports

High-Performance Training for Sports changes the landscape of athletic conditioning and sports performance. This groundbreaking work presents the latest and most effective philosophies, protocols and programmes for developing today's athletes. High-Performance Training for Sports features contributions from global leaders in athletic performance training, coaching and rehabilitation. Experts share the cutting-edge knowledge and techniques they've used with Olympians as well as top athletes and teams from the NBA, NFL, MLB, English Premier League, Tour de France and International Rugby. Combining the latest science and research with proven training protocols, High-Performance Training for Sports will guide you in these areas: • Optimise the effectiveness of cross-training. • Translate strength into speed. • Increase aerobic capacity and generate anaerobic power. • Maintain peak conditioning throughout the season. • Minimise the interference effect. • Design energy-specific performance programmes. Whether you are working with high-performance athletes of all ages or with those recovering from injury, High-Performance Training for Sports is the definitive guide for developing all aspects of athletic performance. It is a must-own guide for any serious strength and conditioning coach, trainer, rehabilitator or athlete.

Sprawlball

\"Beautifully illustrated and sharply written, SprawlBall is both a celebration and a critique of the 3-point shot. If you want to understand how the modern NBA came to be, you'll need to read this book.\" --Nate Silver, editor of fivethirtyeight.com From the leading expert in the exploding field of basketball analytics, a stunning infographic decoding of the modern NBA: who shoots where, and how. The field of basketball analytics has leaped to overdrive thanks to Kirk Goldsberry, whose visual maps of players, teams, and positions have helped teams understand who really is the most valuable player at any position. SprawlBall combines stunning visuals, in-depth analysis, fun, behind-the-scenes stories and gee-whiz facts to chart a modern revolution. From the introduction of the 3-point line to today, the game has changed drastically . . . Now, players like Steph Curry and Draymond Green are leading the charge. In chapters like \"The Geography of the NBA,\" \"The Interior Minister (Lebron James),\" \"The Evolution of Steph Curry,\" and \"The Investor (James Harden),\" Goldsberry explains why today's on-court product--with its emphasis on shooting, passing, and spacing--has never been prettier or more democratic. And it's never been more popular. For fans of Bill Simmons and FreeDarko, SprawlBall is a bold new vision of the game, presenting an innovative, cutting-edge look at the sport based on the latest research, as well as a visual and infographic feast for fans.

The Wages of Wins

The Wages of Wins is a proper analysis of the data generated by professional sports; it tells many tales that are inconsistent with the myths put forward by the media, industry, and consumers of professional sport.

Count Time Series

In the course of their 20+-year engineering careers, authors Brian Fitzpatrick and Ben Collins-Sussman have picked up a treasure trove of wisdom and anecdotes about how successful teams work together. Their

conclusion? Even among people who have spent decades learning the technical side of their jobs, most haven't really focused on the human component. Learning to collaborate is just as important to success. If you invest in the \"soft skills\" of your job, you can have a much greater impact for the same amount of effort. The authors share their insights on how to lead a team effectively, navigate an organization, and build a healthy relationship with the users of your software. This is valuable information from two respected software engineers whose popular series of talks—including \"Working with Poisonous People\"—has attracted hundreds of thousands of followers.

Debugging Teams

This handbook will provide both overviews of statistical methods in sports and in-depth treatment of critical problems and challenges confronting statistical research in sports. The material in the handbook will be organized by major sport (baseball, football, hockey, basketball, and soccer) followed by a section on other sports and general statistical design and analysis issues that are common to all sports. This handbook has the potential to become the standard reference for obtaining the necessary background to conduct serious statistical analyses for sports applications and to appreciate scholarly work in this expanding area.

Handbook of Statistical Methods and Analyses in Sports

In Five Key Principles of Corporate Performance Management, Bob Paladino shares his decades of experience to provide proven, real-world implementation insights from globally recognized and award-winning organizations. You'll discover what today's Fortune 100 companies are doing right, and how to implement their enterprise techniques and strategies within your own organization to maximize success.

Five Key Principles of Corporate Performance Management

Written as a resource for both pre-service and in-service educators, this theory-to-practice book focuses on the foundations and applications of constructivism applied to the teaching and learning of invasion sports and games.

Teaching and Learning Team Sports and Games

This book explains how an organization can measure and manage performance with the Balanced Scorecard methodology. It provides extensive background on performance management and the Balanced Scorecard, and focuses on guiding a team through the step-by-step development and ongoing implementation of a Balanced Scorecard system. Corporations, public sector agencies, and not for profit organizations have all reaped success from the Balanced Scorecard. This book supplies detailed implementation advice that is readily applied to any and all of these organization types. Additionally, it will benefit organizations at any stage of Balanced Scorecard development. Regardless of whether you are just contemplating a Balanced Scorecard, require assistance in linking their current Scorecard to management processes, or need a review of their past measurement efforts, Balanced Scorecard Step by Step provides detailed advice and proven solutions.

Balanced Scorecard Step-by-Step

Identifying talent in athletes and developing that ability to its fullest potential is a central concern of sport scientists, sports coaches and sports policy makers. This book offers a comprehensive synthesis of current knowledge in talent identification and development in sport, from the biological basis of ability to the systems and processes within sport through which that ability is nurtured. Written by a team of leading international experts, the book explores key factors and issues in contemporary sport, including: genetics secondary factors such as birth date, cultural context and population size perceptual motor skill acquisition

and expertise sports development policy in-depth case studies, including European soccer, East African running and US pro sports. With an emphasis throughout on practical implications and processes for all those working in sport, the book offers an authoritative evaluation of the strengths and weaknesses of contemporary systems for identifying and developing talent in sport. This is important reading for any student, researcher or practitioner with an interest in skill acquisition, youth sport, elite sport, sports coaching or sports development.

Talent Identification and Development in Sport

Effective development and management of a supply chain network is an invaluable source of sustainable advantage in today's turbulent global marketplace, where demand is difficult to predict and supply chains need to be more flexible as a result. This updated 4th edition of the bestselling Logistics and Supply Chain Management is a clear-headed guide to all the key topics in an integrated approach to supply chains, including: • The link between logistics and customer value. • Logistics and the bottom line measuring costs and performance. • Creating a responsive supply chain. • Managing the global pipeline. • Managing supply chain relationships. • Managing risk in the supply chain. • Matching supply and demand. • Creating a sustainable supply chain. • Product design in the supply chain.

Logistics and Supply Chain Management ePub eBook

Data Analytics in Football provides students, researchers, and coaches with a firm grounding in the principles of modern performance analysis. It offers an insight into the use of positional data, exploring how they can be collected, modeled, analyzed, and interpreted. Introducing cutting-edge methods, the book challenges long-held assumptions and encourages a new way of thinking about football analysis. The book seeks to define the role of positional data in football match analysis by exploring topics such as the following: What is positional data analysis, and how did it emerge from conventional match analysis? How can positional data be collected, and which technologies can be used? What key performance indicators based on positional data should be used? How can traditional match analysis be complemented by using positional data and advanced KPIs? How can these new methods evolve in the future? Based on data collected from active leagues and fully revised for the new second edition, the text now also examines data collection in relation to other sports, how a data-driven approach in decision-making is achieved by professional teams, the potential of the new methods of data collection, and how they could evolve in the future. Accessibly written, packed full of examples from elite football, and supplemented with expert interviews, Data Analytics in Football is a thought-provoking, rigorously evidence-based guide to the use of data analytics in football performance analysis. As such, it is a vital resource for any student, researcher, or coach interested in performance analysis and skill acquisition, or anyone interested in football more generally.

Data Analytics in Football

The editors of The SAGE Handbook of Sports Economics have brought together a global team of respected scholars to create this benchmark collection of insights into the field of sports economics.

The SAGE Handbook of Sports Economics

'I'm a HUGE fan of Alison Green's \"Ask a Manager\" column. This book is even better' Robert Sutton, author of The No Asshole Rule and The Asshole Survival Guide 'Ask A Manager is the book I wish I'd had in my desk drawer when I was starting out (or even, let's be honest, fifteen years in)' - Sarah Knight, New York Times bestselling author of The Life-Changing Magic of Not Giving a F*ck A witty, practical guide to navigating 200 difficult professional conversations Ten years as a workplace advice columnist has taught Alison Green that people avoid awkward conversations in the office because they don't know what to say. Thankfully, Alison does. In this incredibly helpful book, she takes on the tough discussions you may need to have during your career. You'll learn what to say when: · colleagues push their work on you - then take credit

for it · you accidentally trash-talk someone in an email and hit 'reply all' · you're being micromanaged - or not being managed at all · your boss seems unhappy with your work · you got too drunk at the Christmas party With sharp, sage advice and candid letters from real-life readers, Ask a Manager will help you successfully navigate the stormy seas of office life.

Ask a Manager

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