

Modelling soccer matches using bivariate discrete distributions with general dependence structure

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Modelling Soccer Matches Using Bivariate Discrete

Daniel F McAuley



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Predictive Modelling for Football Analytics Leonardo Egidi, Dimitris Karlis, Ioannis Ntzoufras, 2025-11-07 Predictive Modelling for Football Analytics discusses the most well known models and the main computational tools for the football analytics domain It further introduces the footBayes R package that accompanies the reader through all the examples proposed in the book It aims to be both a practical guide and a theoretical foundation for students data scientists sports analysts and football professionals who wish to understand and apply predictive modelling in a football context Key Features Discusses various modelling strategies and predictive tools related to football analytics Introduces algorithms and computational tools to check the models make predictions and visualize the final results Showcases some guided examples through the use of the footBayes R package available on CRAN Walks the reader through the full pipeline from data collection and preprocessing through exploratory analysis and feature engineering to advanced modelling techniques and evaluation Bridges the gap between raw football data and actionable insights This text is primarily for senior undergraduates graduate students and academic researchers in the fields of mathematics statistics and computer science willing to learn about the football analytics domain Although technical in nature the book is designed to be accessible to readers with a background in statistics programming or a strong interest in sports analytics It is well suited for use in academic courses on sports analytics data science projects or professional development within football clubs agencies and media organizations

Handbook of Statistical Methods and Analyses in Sports Jim Albert, Mark E. Glickman, Tim B. Swartz, Ruud H. Koning, 2017-02-03 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

Copulae in Mathematical and Quantitative Finance Piotr Jaworski, Fabrizio Durante, Wolfgang Karl Härdle, 2013-06-18 Copulas are mathematical objects that fully capture the dependence structure among random variables and hence offer great flexibility in building multivariate stochastic models Since their introduction in the early 1950s copulas have gained considerable popularity in several fields of applied mathematics especially finance and insurance Today copulas represent a well recognized tool for market and credit models aggregation of risks and portfolio selection Historically the Gaussian copula model has been one of the most common models in credit risk However the recent financial crisis has underlined its limitations and drawbacks In fact despite their simplicity Gaussian copula models severely underestimate the risk of the occurrence of joint extreme events Recent theoretical investigations have put new tools for detecting and estimating dependence and risk like tail dependence time varying models etc in the spotlight All such

investigations need to be further developed and promoted a goal this book pursues The book includes surveys that provide an up to date account of essential aspects of copula models in quantitative finance as well as the extended versions of talks selected from papers presented at the workshop in Cracow

Machine Learning and Data Mining for Sports Analytics Hugo Rios-Neto, Pieter Robberechts, Maaike Van Roy, Albrecht Zimmermann, 2026-01-27 This book constitutes the refereed proceedings of the 12th International Workshop on Machine Learning and Data Mining for Sports Analytics MLSA 2025 held in Porto Portugal on September 15 2025 The 11 full papers presented in this volume were carefully reviewed and selected from 24 submissions They are grouped into the following topics Individual sports Soccer Other team sports

Statistical Thinking in Sports Jim Albert, Ruud H. Koning, 2007-07-12 Since the first athletic events found a fan base sports and statistics have always maintained a tight and at times mythical relationship As a way to relay the telling of a game s drama and attest to the prodigious powers of the heroes involved those reporting on the games tallied up the numbers that they believe best described the action and bes

Machine Learning in Sports Keisuke Fujii, 2025-05-12 This open access book provides cutting edge work on machine learning in sports analytics emphasizing the integration of computer vision data analytics and machine learning to redefine strategic sports analysis This book not only covers the essential methodologies of capturing and analyzing real sports data but also pioneers the integration of real world analytics with digital modeling advancing the field toward sophisticated digital modeling in sports Through a seamless blend of theoretical frameworks and practical applications the book illustrates how these integrated technologies can be utilized to predict evaluate and suggest next plays in sports By leveraging the power of machine learning the book presents cutting edge approaches to sports analytics where data from actual games is enhanced with predictive simulations for strategic planning and decision making The use of digital modeling in sports opens up new dimensions of interaction between the physical play and its digital analysis offering a comprehensive understanding that was previously unattainable This book is an essential read for postgraduates researchers and technologists who are interested in sports analysts The book consists of five parts Part I which comprises a single chapter exploring the fundamentals and scope of learning based sports analytics Parts II III IV and V review the various aspects of this field including data acquisition with computer vision predictive analysis and play evaluation with machine learning potential play evaluation with learning based agent modeling and future perspectives and ecosystems on the field This structure provides a comprehensive overview that will engage and inform researchers and practitioners interested in the intersection of analytical research and cutting edge technology in sports

[INFORMS Annual Meeting](#) Institute for Operations Research and the Management Sciences. National Meeting, 2007

Exploring Data in Engineering, the Sciences, and Medicine Ronald Pearson, 2011-02-03 This book introduces various widely available exploratory data analysis methods emphasizing those that are most useful in the preliminary exploration of large datasets involving mixed data types Topics include descriptive statistics graphical analysis tools regression modeling and spectrum estimation along with

practical issues like outliers missing data and variable selection Journal of Economic Literature ,1996 **International Aerospace Abstracts** ,1982 **Stochastic Modelling of Soccer Match Results** Stephen Dobson,John Goddard,University College of Swansea. Department of Economics,2000 Modeling the Game of Soccer Using Potential Functions Robert Timothy Branom,2011 Soccer championship probabilities estimation ,2001 Neste trabalho apresentamos uma metodologia para obter probabilidades de classifica o e rebaixamento de equipes em campeonatos de futebol A metodologia consiste basicamente em 4 etapas Na primeira etapa ajustamos modelos de s ries temporais para dados de contagem a s ries de gols a favor e sofridos pelas equipes em partidas sucessivas do campeonato utilizando vari veis explicativas para considerar o efeito do mando de campo da participa o de determinados jogadores e de mudan as de t cnico Alguns problemas referentes constru o de intervalos de confian a e testes de hip teses para os hiperpar metros dos modelos foram solucionados via bootstrap Na segunda etapa obtivemos as distribui es de probabilidade associadas aos resultados das partidas futuras do campeonato utilizando o Princ pio da M xima Entropia para combinar as distribui es preditivas dos modelos ajustados Na terceira etapa utilizamos as distribui es dos resultados das partidas futuras para simular cen rios para o campeonato e na quarta e ltima etapa estimamos as probabilidades de classifica o e rebaixamento das equipes pela freq uencia relativa da ocorr ncia destes eventos em um grande n mero de cen rios gerados A metodologia foi aplicada no Campeonato Brasileiro 1999 e na Copa Jo o Havelange 2000

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