

## Modelling Soccer Matches Using Bivariate Discrete

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In this paper copulas are used to generate novel bivariate discrete distributions. These distributions are fitted to soccer data from the English Premier League. An interesting aspect of these data is that the primary variable of interest, the discrete pair shots-for and shots-against, exhibit negative dependence; thus in particular we develop bivariate Poisson-related distributions that allow such dependence.

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This copula representation allows dependence in the bivariate distribution to be modelled in a flexible manner by specifying a suitable family of copula functions and fitting this to the bivariate... Modelling Soccer Matches Using Bivariate Modelling soccer matches using bivariate discrete distributions with general dependence structure. Ian McHale.

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SIMULATINGFOOTBALLMATCHES 22. 3.2 The Model. To predict the number of goals in a football match we will be using the bivariate Poisson distribution as described in section 2.4, where X is the number of goals scored by the home team and Y is the number of goals scored by the away team in a single match.

The Bivariate Poisson Distribution and its Applications to ...

We can use this statistical model to estimate the probability of specific events.  $P(X = 2 | H o m e) = P(X = 2 | H o m e) + P(X = 3 | H o m e) + \dots = 0.258 + 0.137 + \dots = 0.47$ . The probability of a draw is simply the sum of the events where the two teams score the same amount of goals.

Predicting Football Results With Statistical Modelling ...

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Modelling soccer matches using bivariate discrete distributions with general dependence structure Modelling soccer matches using bivariate discrete distributions with general dependence structure McHale, Ian; Scarf, Phil 2007-11-01 00:00:00 1Introduction Soccer is the most popular spectator sport in the world. From South America to Eastern

Modelling Soccer Matches Using Bivariate Discrete |

The paper presents a forecasting model for association football scores. The model uses a Weibull-inter-arrival times based count process and a copula to produce a bivariate distribution for the number of goals scored by the home and away teams in a match. We test it against a variety of alternatives, including the simpler Poisson distribution-based model and an independent version of our model.

A Bivariate Weibull Count Model for Forecasting ...

"Modelling soccer matches using bivariate discrete distributions with general dependence structure," Statistica Neerlandica, Netherlands Society for Statistics and Operations Research, vol. 61(4), pages 432-445, November.

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An extensive study for the use of the bivariate Poisson distribution for the modeling of soccer data is found in Karlis and Ntzoufras (2003). There, the three parameters 1, 2 and 3 of the bivariate Poisson distribution are modeled by linear predictors depending on team-specific attack and defense abilities as well as team-specific home effect parameters.

Who 's the Favourite? — A Bivariate Poisson Model ...

Use Poisson to predict football matches. At first we will calculate the probability for a draw. Since we know the probability that the match will end in either 0-0, 1-1, 2-2, ..., 10-10 we can easily calculate the likelihood of the matching ending in a draw. This can be done by summing over all possible draw outcomes from the above table.

How to Use Poisson Distribution for Predicting Football ...

We compare various extensions of the Bradley – Terry model and a hierarchical Poisson log-linear model in terms of their performance in predicting the outcome of soccer matches (win, draw, or loss). The parameters of the Bradley – Terry extensions are estimated by maximizing the log-likelihood, or an appropriately penalized version of it, while the posterior densities of the parameters of the ...

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Modelling soccer matches using bivariate discrete distributions with general dependence structure. Statistica Neerlandica, 61, pp.432-445, McHale, I. and Scarf, P., 2011. Modelling the dependence of goals scored by opposing teams in international soccer matches.