Modeling and Estimation of Each Player's Playability from Double Tennis Matches

Chul Eung Kim

Yonsei University, Seoul 120-749, South Korea.

Abstract

There has been many ranking system for many kinds of sports. There are ranking systems for single match players and double pairs in tennis. Those ranking systems treat double pairs as single entities. Several models, Bradley-Terry variants, are tried to fit the results of double tennis matches. The data contains only the results of double matches while we attempt to estimate each player's playability. The sum of each player's playability may not reflect the pair's strength.