

Model I: The Momentum Index Model for the Match Flow

G1 entropy weight method

Independence Rights Law

Indicator Integration and Information Synthesis

Model II: Momentum-Performance Matching System Based on DTW

DTW algorithm

The momentum curve of athletes

The score fluctuation curve of athletes

Conversion of Momentum to Winning Probability

ARIMA model and LSTM model prediction

Some recommendations for players

Recommendations for Player Performance

Model III: Predictive Model for Match Dynamics

Selection of data

Selection of Classic Competitions

The drawing of momentum diagrams

Comparison between Momentum Diagram and Actual Competition

Applied in an NBA game