



# Optimization Recommendations Based on Research

## Memorandum

To:Dancing with the Stars Production Team

From: Team #2615954

Subject:DWTS Optimization Recommendations Based  
on Research

Date: February 2, 2026



It is our honor to write to your team to present our research findings on optimal fairness mechanisms for program voting and elimination processes. Below, we will outline the core elements of this study, focusing on the practical implementation of optimal fairness mechanisms to enhance the fairness, rationality, and entertainment value of your programs.

During our research, we analyzed data from the past 34 seasons of the program. By establishing a multi-level statistical model, we simulated the operational outcomes of various voting and elimination formats. Ultimately, we discovered that:

- The percentage method places greater emphasis on audience voting than the ranking method;
- The judge intervention mechanism provides a chance to correct errors in disputed cases;
- The weighting of judging and audience voting is a crucial factor in the scoring mechanism.

Next, we will propose the following specific recommendations for the implementation and refinement of optimal fairness mechanisms:

- **Dynamic Weight Adjustment Mechanism:**

Dynamically adjust the weighting of judges' and audience votes based on the characteristics of different stages of the program, adhering to the principle of optimal fairness mechanisms.

- **Refine the Judge Rescue Mechanism:**

Continuously refine the rules governing the use of the judge rescue mechanism to address limitations in the voting process, thereby enhancing the fairness and acceptance of elimination outcomes.

- **Standardize the voting process:**

Guide participants to vote rationally, mitigate unreasonable interference, ensure the authenticity and validity of voting results, and provide safeguards for implementing optimal fairness mechanisms.



We sincerely hope this research provides valuable insights for your program's operations, helping to refine its voting and elimination mechanisms.

Looking forward to seeing further success for Dancing with the Stars in the future!

Sincerely yours,  
Team #2615954