

CSCE 475/875 Multiagent Systems
Game Day 2: Voting Day
Assigned: October 6, 2015 Game Day: October 15, 2015

Introduction

Welcome to Soh's Agency for Movies Preference Aggregation (SAMPA). Note that this agency is simply collecting information on movies, in an efficient and effective manner. In a way, voters (or agents) are non-strategic – as each voter should reveal their preferences truthfully as nothing is to be gained either way.

This document is supplementary to Game Day 2: Voting Day assignment.

Procedure

Each team is given the same list of movies on Game Day in an Excel file. Then for each round, each team is required to provide their voting and e-mail their Excel file back to the Game Day monitor(s).

Then the Game Day monitor(s) will put the votes in a single spreadsheet online for teams to obtain. The URL For the spreadsheet will be announced during Game Day.

Then, for Round 1, 2, 3, 5, and 6, each team will e-mail the winner to the Game Day monitor(s).

Because there are six rounds, please FOLLOW the following file naming convention.

Round<Round Number>_<TeamName>_Voting.xls

OR

Round<Round Number>_<TeamName>_Voting.xlsx

So, for Round 1, if my team name is Foobar, then, my filename will be:

Round1_Foobar.xls

In your Excel file, please list the preference ordering of the movies and highlight the winner. Each incorrect "winner" answer will result in a penalty of 2 points from your final grade for the Game Day.

Please do indicate your Team Name clearly in your e-mail.

The timestamp of your e-mail (sent) will serve as the time stamp that we use to judge your "timeliness".

Please come prepared and know all the six voting definitions well. We will not answer any questions about the voting definitions and you should not ask questions about any either.

Here is the link to the Game Day site:

<http://cse.unl.edu/~aeck/gameday/voting/game/>.

Below is the list of movies:

Ant-Man	Mission Impossible – Rogue Nation
Avengers: Age of Ultron	Pitch Perfect 2
Black Mass	Pixels
Chappie	San Andreas
Cinderella	Selma
Everest	Southpaw
Ex Machina	Spectre
Fantastic Four	Spy
Furious 7	Still Alice
Inside Out	Straight Outta Compton
Insurgent	The Intern
Jupiter Ascending	The Martian
Jurassic World	The Visit
Legend	The Walk
Mad Max: Fury Road	Tomorrowland
Maze Runner: The Scorch Trials	Vacation

Round 1: Plurality Voting

- Please copy and paste your vote and movie titles into this space.
- Selected winner(s) after aggregating all votes: _____

Round 2: Cumulative Voting

- Please copy and paste your vote and movie titles into this space.
- Selected winner(s) after aggregating all votes: _____

Round 3: Approval Voting

- Please copy and paste your vote and movie titles into this space.
- Selected winner(s) after aggregating all votes: _____

Round 4: Borda Voting

Submit your preference ordering using $n-1$ points for the highest ranked candidate, $n-2$ points for the second highest candidate, and so forth, and finally 0 point for the last candidate.

- Please copy and paste your vote and movie titles into this space.
- Selected winner(s) after aggregating all votes: _____
- The preference ordering after aggregating all votes (please copy and paste the ordering into this space)

Question 1. Using the above aggregated preference ordering, revisit Round 4 results, is the Condorcet condition satisfied? (Justify your answer.)

Question 2. Given the Borda voting results, is there a spoiler item such that its remove from the list would cause significant changes to the preference ordering? (Justify your answer.)

Round 5: Plurality with Elimination

Round	Eliminated movie(s)	Teams that had to revote	Movies that received the re-votes
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
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16			
17			
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22			
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24			
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26			
27			
28			
29			
30			
31			

* Since each team is allowed to re-vote only if their candidate is eliminated, it is possible that you will end up having the same vote for some or even all rounds. If two or more movies are rated the worst, then they are all eliminated. And those who had voted for them (to be winners) are to revote.

- Selected winner(s) after aggregating all votes: _____

Round 6: Pairwise Elimination

Below is the pairwise elimination order (schedule or agenda) for the Game Day. Please fill out this table.

Candidate	Round 1	Round 2	Round 3	Round 4	Round 5
Ant-Man					
Avengers: Age of Ultron					
Black Mass					
Chappie					
Cinderella					
Everest					
Ex Machina					
Fantastic Four					
Furious 7					
Inside Out					
Insurgent					
Jupiter Ascending					
Jurassic World					
Legend					
Mad Max: Fury Road					
Maze Runner: The Scorch Trials					
Mission Impossible – Rogue Nation					
Pitch Perfect 2					
Pixels					
San Andreas					
Selma					
Southpaw					
Spectre					
Spy					
Still Alice					
Straight Outta Compton					
The Intern					
The Martian					
The Visit					
The Walk					
Tomorrowland					
Vacation					

For this round, no new votes will be solicited since the preference ordering of all teams will have been given to each team in Round 4.

- Please fill in the winner for each round all the way to the final.
- Selected winner(s) after aggregating all votes: _____

Question 3. Did the above pairwise elimination order cause an item that Pareto-dominates another candidate to finish behind the dominated candidate? (Justify your answer.)

Question 4. Provide another pairwise elimination order that would cause an item that Pareto-dominates another candidate to finish behind the dominate candidate?

Lessons Learned

Notes: