

CSCE 475H Multiagent Systems  
**Game Day 2: Voting Day**  
**Assigned: February 23, 2016    Game Day: March 1, 2016**

**Introduction**

Welcome to Soh's Agency for Songs Preference Aggregation (SASPA). Note that this agency is simply collecting information on songs, 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 will be given/provided the same list of songs 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 aggregate the votes and send the aggregated Excel file back to all teams.

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. Several teams failed to do so in Game Day 1 causing confusions for the Game Day monitor(s). So, this time around, teams with incorrect naming convention will be penalized (-5 points).

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

For the “winner” e-mail, a simple note would do. Please do indicate your Team Name and the selected winner clearly in your e-mail. Also please make sure to indicate your Team Name in the subject line of the email.

**Important:** Teams must remember to keep their voting consistent through the rounds, that is, teams are not allowed to change their preference order (or vote for a less preferred candidate) during the rounds.

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.

Further, you are allowed to submit the winning candidate (song) for a round only once. Any wrong answer will result in a penalty of 2 points from your final grade for the Game Day.

Here is the link to the Game Day site:

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

**Note:** The list of songs for you to vote on will be provided on Game Day.

Bad Company	Never Gonna Give You Up (Rick Astley)
Call Me Maybe (Carly Rae Jepsen)	Photograph (Nickelback)
Can You Feel The Love Tonight (Elton John)	Pipe it Up (Migos)
Centuries (Fall Out Boy)	Play (David Banner)
Comin' To Your City (Big & Rich)	Prison Riot (Flosstradamus, GTA, Lil' Jon)
Como me gusta la noche (Nene Malo)	Sandstorm (Darude)
Crunchy Granola Suite (Neil Diamond)	Scholarship (Juicy J)
Embrace The Martian (Kid Cudi)	Seven Years (Lukas Graham)
Friday (Rebecca Black)	She Loves You (Beatles)
Gangnam Style (Psy)	Temple of Tool (VTool and the Tools)
HeavyDirtySoul (Twenty One Pilots)	The Baddest (Krispy Kreme)
Higher Ground (TNGHT)	The Circle of Life (Elton John)
I Will Remember You (Sarah McLachlan)	Tunak Tunak Tun (Daler Mehndi)
If I Can Dream (Elvis Presley)	Turn Around - Total Eclipse of the Heart (Bonnie Tyler)
Leaving on a Jet Plane (John Denver)	Two Dollar Hot Dog 1 Dollar Water
Maple Leaf Rag (Scott Joplin)	What's Going On (4 Non Blondes, He-Man version)

**Round 1: Plurality Voting**

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

**Round 2: Cumulative Voting**

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

**Round 3: Approval Voting**

- Please copy and paste your vote and song 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 song 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 song(s)	Teams that had to revote	Songs that received the re-votes
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
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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 songs 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. Note: The Pairwise Elimination schedule will be provided on Game Day).**

Candidate	Round 1	Round 2	Round 3	Round 4	Round 5
Bad Company					
Call Me Maybe (Carly Rae Jepsen)					
Can You Feel The Love Tonight (Elton John)					
Centuries (Fall Out Boy)					
Comin' To Your City (Big & Rich)					
Como me gusta la noche (Nene Malo)					
Crunchy Granola Suite (Neil Diamond)					
Embrace The Martian (Kid Cudi)					
Friday (Rebecca Black)					
Gangnam Style (Psy)					
HeavyDirtySoul (Twenty One Pilots)					
Higher Ground (TNGHT)					
I Will Remember You (Sarah McLachlan)					
If I Can Dream (Elvis Presley)					
Leaving on a Jet Plane (John Denver)					
Maple Leaf Rag (Scott Joplin)					
Never Gonna Give You Up (Rick Astley)					
Photograph (Nickelback)					
Pipe it Up (Migos)					
Play (David Banner)					
Prison Riot (Flosstradamus, GTA, Lil' Jon)					
Sandstorm (Darude)					
Scholarship (Juicy J)					
Seven Years (Lukas Graham)					
She Loves You (Beatles)					
Temple of Tool (VTool and the Tools)					
The Baddest (Krispy Kreme)					
The Circle of Life (Elton John)					
Tunak Tunak Tun (Daler Mehndi)					
Turn Around - Total Eclipse of the Heart (Bonnie Tyler)					
Two Dollar Hot Dog 1 Dollar Water					
What's Going On (4 Non Blondes, He-Man version)					

**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 dominated candidate?**

**Lessons Learned**

**Notes:**