**Discrete Event System Modeling**

**Fall 2011**

**Assignment 2: Music Conversion Automation**

I have updated the Conversion program so that it can take the name of the output of the Music Modulation model and the output of the game of life as its arguments, and then generates a file that can be fed to java program to make the midi file. I also changed the java program so it can accept the output of the Conversion program. I have automated all of this process by scripts.

I have generated different life MA file with different initialization and outputs, and then generated the midi files of the outputs using Music Modulation model to compare the different scenarios.

I have automated all the steps as your advice. The steps to run the script and updating the path inside the script is in the “**Script-Read\_me\_first.doc**” file. The script name is “Music.vbs” and it takes a MA file as an input. Please see the “*Script-Read\_me\_first.doc*” for how to use the script.

The script does the following:

1. It takes a MA file as an input and passes the file to a batch file to run the simulator. The batch file name is: **runMA.bat**. The batch file runs simulator using “**simuOrig.exe**” and **drawlog.exe** files in “**Internal”** folder of CD++ installation path. For this reason, the paths in the batch file need to be updated before using. The script uses the name of the file that has been entered and so all of the outputs after this step (midi file, draw log file, and the interim files) have the associated name with this name.
2. The script then calls the **Conversion.exe** program and passes the output file of the simulation in step 1 to it. This program extracts the information from these files and generates a file that is ready to be used by the java program.
3. After the Conversion program finishes, the script calls the java program and passed the output of the Conversion to make the midi file. The midi file will be generated and the draw log file will opened to observe and for comparison.

Please see the “**Script-Read\_me\_first.doc**” file before using the script.