Oral storytelling has become a lost art of family histories because social media and technology have taken over the personal interactions that once passed on the important stories and facts from generation to generation. This dissertation presents and evaluates a method of generating a narrative with input from the listener without actually forcing him or her to become an actual character in the narrative. This system is called CAMPFIRE Story Telling System (STS) and employs a contextual approach to story generation. This system uses the Cooperating Context Method (CCM) to generate and tell dynamic stories in real time and can be modified by the listener. CCM was created to overcome the weaknesses found in other contextual approaches during story generation while still meeting the design criteria of 1) being able to plan out a story; 2) being able to create a narrative that is entertaining to the listener; and 3) being able to modify the story that could incorporate the listener’s request in the story. The CAMPFIRE STS was rigorously assessed for its functionality, novelty, and user acceptance as well as the time needed to modify the knowledge base. These evaluations showed that the CAMPFIRE STS has the ability to create novel stories using the same knowledge base. A group of 38 test subjects used and evaluated CAMPFIRE STS with respect to its use for children, story entertainment, story creativity and the system’s ease of use. The survey showed that CAMPFIRE STS can create novel and entertaining stories, and that it was an easy system to use.

Major: Computer Engineering

Educational Career:
Bachelor's of Computer Engineering, BS, 2005, University of Central Florida
Master's of Computer Engineering, MS, 2007, University of Central Florida

Committee in Charge:
Avelino Gonzalez, Chair, Computer Science
Ronald DeMara, Electrical & Computer Engineering
Gita Sukthankar, Electrical & Computer Engineering
Samuel Richie, Electrical & Computer Engineering

Approved for distribution by Avelino Gonzalez, Committee Chair, on June 6, 2016.

The public is welcome to attend.