

## Playing Light Switching Games with Langton's Turmite

**Authors :** Crista Arangala

**Abstract :** Light switching games are both popular and well studied. This paper introduces a cellular automata called Langton's turmite to several different light switching scenarios and discusses when Langton's turmite can solve these games.

**Keywords :** cellular automata, lights out, alien tiles, chaos, Langton's Turmite

**Conference Title :** ICACM 2015 : International Conference on Applied and Computational Mathematics

**Conference Location :** Madrid, Spain

**Conference Dates :** November 12-13, 2015