Paper title: A Platform on the Cloud for Self Creation of Mobile Interactive Learning Trails

Abstract:
We present a system for people to create mobile interactive learning trails. The system includes a web portal running on the Amazon cloud server for people without programming skill to create learning trails for outdoor fieldtrip learning, and two universal apps for iOS and Android phones respectively to run different learning trails. Once a learning trail is created, it can be immediately released to the two smart phone apps for mobile users to conduct the learning trail. The system enables rapid and easy creation of mobile learning trails within 15 minutes without any mobile app development. It also provides flexibilities of using various formats of multimedia contents to design different learning trails to facilitate interactive learning. When a learning trail is conducted, the learning contents are activated by snapping pictures from physical Objects Of Interest (OOIs), or entering a geographic area. Image recognition technology is used to identify which OOI that the picture is captured from, and return relevant contents pre-associate with the OOIs.