**Suggested topics**: 2. GIS-GIS Decision Support and Models

**Paper title**: Digitization of Traditional Knowledge and Practice of Farming ─ A Case Study of the Atayal Communities in Jianshih Village, Taiwan

**Author**: Meng-Hsuan Chang (Graduate student), Shih-Yuan Lin (Assistant Professor)

**Proposed presenter**: Meng-Hsuan Chang

**Institution**: Department of Land Economics, National Cheng Chi University, Taipei, Taiwan

**Mailing address**: No. 64, Sec. 2, ZhiNan Road, Wenshan District, Taipei 11605, Taiwan

**Phone**: +886-2-29393091#51651

**Email**: 101257008@nccu.edu.tw, syl@nccu.edu.tw

**Abstract**

Affected by climate change in recent years, the possibility of debris flow and landslide increases whenever there is a heavy rainfall caused by typhoon. According to the above, the government drew up some strategies to passively limit the development of slope land. Actually, the indigenous knowledge of farming is empirical rules made by a long-term interaction between human and organism which benefit to each other. As a result, by discussing the indigenous knowledge of farming, it could provide positive suggestions for the cultivation on slope land. In conclusion, the research will investigate and analyze the indigenous knowledge of farming based on GIS, which aims to digitize it.

**Key word**: the indigenous knowledge of farming, traditional ecological knowledge