**Spatial and Probability Analysis about Drought Vulnerability and Risk in South Korea**

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**KEY WORDS:** Drought, DHI, EDI, Spatial analysis

**ABSTRACT:** Drought is natural phenomenon that amount of precipitation has being less abnormal by long periods. Drought occurrence has an effect on all of the water necessary parts. Also, If drought has steadily continue by long periods, drought has bring about an desertification. Therefore drought monitoring is important where drought vulnerability district. More than 50 drought indices are available about all kinds of drought risk factors. In this study, to assess drought risk area, we will be applied DHI (Drought Hazard Index) calculated by EDI (Effective Drought Index), finally this study suggest about quantitative drought risk probability and spatial drought risk district.

Oral presentation

Proposed presenter: Hyo-Seon Jang