

## **DRAINAGE CHARACTERISTICS OF STRIKE-SLIP FAULT IN TAIWAN**

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As reflected by the geologic characteristics and the topographic evolution of the drainage basin, the development and the pattern of the drainage system are highly controlled by the original slope angles, rock types, geologic structures, crustal movement and especially by the more recent tectonic movement. This research is aimed to study the regional geologic structure and the topographic evolution of the Taiwan island by means of stream order analysis, topographic slope measurements, as well as the spatial distribution and linear perturbation analyses on the drainage system. Based on the changes in the longitudinal and transversal spatial anomalies of the drainage pattern, obviously linear structures are established, the lineations may represent active fault on different geological settings in Taiwan. The method of drainage pattern analysis in this study has been proved to be applicable to the study of the topographic and tectonic evolutions in Taiwan, too.