



Morphometric and structural analysis in Zagros Mountains, Southwest Iran: an application of geo-information technology

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Abstract: The Kor river is one of the main rivers of the Zagros mountains of southwest Iran. Remote sensing and Geographic Information System (GIS) techniques have been used as tools in lithological, structural and drainage analysis of the Kor river basin in Zagros Mountains. Drainage density and lineament density were calculated and correlated with lithology to evaluate the tectonic processes in the studied area. The analysis of the study area shows that i) Bangestan and ii) Asmari-Jahrum formations have high lineament density as well as high drainage density indicating tectonic control in these formations.

Keywords: Zagros Mountain, Lithology, Lineament density, Tectonic processes.