Optimization and Design of Geodetic Networks using "KALE PACHE" Method

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Finding an optimal configuration is one the most important steps in the design and establishing a deformation monitoring network. The main goals of an optimal network design process include finding proper location of control stations (First Order Design) as well as proper weight of observations (Second Order Design) in a way that satisfy all the criteria considered for the quality of the network which itself is evaluated by the network’s accuracy, reliability (internal and external), sensitivity and cost. Finding a reliable method for the first and the second order design is the aim of this paper. We called this new method, "KALE PACHE". To have better results we advise to campaign early in mornings and use equipments like: Zaboon, Cheshm and of course Pacheh. It is necessary to use Ablimoo after Second Order Design. More numerical results described in the paper.