

## **Abstract**

On most issues during the engineering and scale of their rainfall data is important, While the measurement data directly is difficult, or even impossible, which makes use of indirect methods to estimate is significant.

In this thesis, the data of rainfall in between October of 1362 to September of 1390 in five catchment Jazmurian rain gauge stations and Kahnuj area and dissagrigare rainfall data were used to estimate; by writing a code linear 1100 in the MATLAB software, first observed data with the method of Valencia-Shakeh and Mejia-Russell and averaging downscaled and were compared with the data control. Then, the two stations have hourly data for eight stations hourly data was estimated on daily data, and at the end of the time series of monthly data on daily data sets were obtained.

The results of the writing the code with the results of Mudrain software and analytical methods the Valencia-Shakeh and Mjya- Russell comparable.

**Keywords: time series, mudrain, rainfall data, kahnuj**



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