## البحث الثامن (مشترك)

Title: Bayesian prediction of order statistics with fixed and random

sample sizes based on k-recordvalues from Pareto distribution

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Abstract.In this paper, the two-parameter Pareto distribution is considered andthe problem of prediction of order statistics from a future sample andthat of its geometric mean are discussed. The Bayesian approach isapplied to construct predictors based on observed k-record values forthe cases when the future sample size is fixed and when it is random.Several Bayesian prediction intervals are derived. Finally, the results of asimulation study and a numerical example are presented for illustratingall the inferential procedures developed here.