
On Characterization Of some Mixture Probability Distribution /

Zohdy Mohamed Nofal

There is no denying that over the past two decades there has been an increasing interest in characterization of well known discrete as well as continuous distributions mixture distributions and characterization problems in general some excellent references are e.g. Patil 1965 Kotz 1974. Patil Kotz and Ord and others. In fact there have been significant developments in the last two decades of ways and means of statistical theory to characterize several discrete and or continuous probability distributions of interest in application. Various characterizations have been obtained in terms of :- conditional expectations of function of order statistics.-conditional variance-independence of random variables and some ratios of them-relations among expected values of records-mean residual functions properties- Properties of renewal densities and compounded distribution-- Failure rate functions and reversed failure rate functions.-Mixtures of distribution. Several articles have been written using one of the above directions to characterize the exponential distribution the normal distribution the geometric the binomial and poisson distributions the pascal distribution the pareto distribution the inverse gaussian distribution and the weibull distributions among other distributions.
واهم بالرسالة جاء لما عرض على الأول الفصل يحتوى النتائج بها وتوزيعها على الفصول الأخرى والفصل الثانى يحتوى على مسح تاريخى للعديد من نتائج التمييز المتعلقة بموضوع البحث والسابق نشرها قبل واثناء اعداد هذه الرسالة الفصل الثالث تتناول الرسالة بتمييز العديد من التوزيعات الاحتمالية المستمرة مثل توزيع جاما (A,B) وتوزيعا بيتا (M-C-B-A) وكذلك المتقطعة مثل بواسون وذى الحدين (M)