Mehdi Razzaghi* (mrazzagh@bloomu.edu). *An Extension of the Log-Lindley Distribution with Application. Preliminary report.

Since the introduction of the Lindley distribution in the late 1950’s several generalizations and modifications have been considered by several authors. Recently, however, the log-Lindley distribution was introduced by some researchers with many interesting properties and features, and with extensive applications in insurance and economics. The advantage of the log-Lindley distribution is that it can be regarded as an alternative to beta distribution. This latter distribution serves as a very flexible model in a variety of set ups and therefore, in theory, the log-Lindley distribution has the potential of being a very important model in various applications. Here, we introduce the log-Lindley-normal distribution as an alternative to the beta-normal model. The properties of this new proposed model are explored and an application is discussed. (Received September 26, 2017)