THE MIXED GENERALIZED LINEAR EXPONENTIAL DISTRIBUTION

JELENA STANOJEVIĆ, VESNA ĆOJBAŠIĆ RAJIĆ AND GORAN LAZOVIĆ

Abstract. In this paper we introduce mixed generalized linear exponential distribution (by the name MGLED) and real data analyses in this paper have been shown that this distribution fit that data very well. Properties for this distribution are found. The maximum likelihood estimators are obtained. Real data are used to illustrate that the MGLED can be a good model for it.

REFERENCES


Received: July 18, 2015. Revised: January 15, 2016.
2010 Mathematics Subject Classification: 60E05, 62-07.
Key words and phrases: Generalized linear exponential distribution, mixed generalized linear exponential distribution, Mean residual lifetime function, expectation-maximization algorithm.

University of Belgrade
Department of Mathematics and Statistics
Faculty of Economics
Kamenička 6, Serbia
E-mail address: jelenas@ekof.bg.ac.rs

University of Belgrade
Department of Mathematics and Statistics
Faculty of Economics
Kamenička 6, Serbia
E-mail address: vesnac@ekof.bg.ac.rs

University of Belgrade
Department of Mathematics
Faculty of Mechanical Engineering
Kraljice Marije 16, Serbia
E-mail address: glazovic@mas.bg.ac.rs