

Constantinos Georghiou, Andreas N. Philippou, and Abolfazl Saghafi  
*On the Modes of the Poisson Distribution of Order  $k$ ,*  
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**Abstract**

Sharp upper and lower bounds are established for the modes of the Poisson distribution of order  $k$ . The lower bound established in this paper is better than the previously established lower bound. In addition, for  $k = 2, 3, 4, 5$ , a recent conjecture is presently proved solving partially an open problem since 1983.