

1125-VP-3067 **Kemal Akoglu*** (kakoglu@ncsu.edu), 3147-B Kings Ct, Raleigh, NC 27606. *The Role of Technology in Overcoming the Common and Resistant Misconceptions about Probability*. Preliminary report.

Probability has an abstract, uncertain nature. Where our conclusions in mathematical problems are and have to be certain, in probability it is only possible to have ‘probabilistic’ conclusions that approximate the theoretical probability in order to make decisions. Because of its uncertain nature, and various other factors, there have been ongoing, resistant misconceptions about probability.

With the help of technology, learners can participate in the process of building probability models and collecting data generated from those models, creating opportunities to improve probabilistic understanding.

Research based suggestions to overcome probabilistic misconceptions will be presented, and the role of technology will be highlighted with examples. (Received September 20, 2016)