

STSM at the University of Belgrade (5th - 17th December, 2019)

The focus was to study the possibilities for application of modern statistical techniques for meeting one of the main objectives of market surveillance in general, that is perform appropriate checks on the characteristics of products on an adequate scale.

This target can be met by obtaining an optimal sample size and suggesting an optimal sampling plan, where optimal means best sampling plan for a given budget.

Statistical techniques that were considered were the one that arise: from binomial distribution, from quality control, from ISO standards on other areas, and from Bayesian statistics.

The study showed that the statistical techniques based on the binomial distribution meet the needs of market surveillance in a most efficient way. Further on, this approach was adjusted and modified for application in market surveillance, including development of software in MATLAB and worksheets in Excel for testing and for real life application.

Some of the results obtained during this STSM were presented at the 10th Symposium "Mathematics and Applications", organized by Faculty of Mathematics, University of Belgrade, held in Belgrade on 06-07 December 2019.



Nikola Tuneski, The Saints Cyril and Methodius University of Skopje, Republic of Macedonia