

**MISCOI, Gheorghe; IOAN, Rodica; ALBEANU, Grigore, *BOOTSTRAP SIMULATION MODELS FOR INDIRECT MEASUREMENTS ESTIMATION***

**Abstract:** This paper presents different bootstrap simulation models to be applied for some indirect measurement problems. These approaches are discussed and applied for uncertainty measurement in proficiency testing, time series, and reliability modelling. From computational point of view, the generalized inverse is required when using Quasi Gauss Newton Algorithms for solving nonlinear systems of equations.

**Keywords:** bootstrap, Quasi Gauss Newton, generalized inverse