

ALBEANU, Grigore; MADSEN, Henrik; POPENȚIU-VLĂDICESCU, Florin; DUMITRU, Marius, *ON DESIGNING EXTENDABLE JAVA-BASED SOFTWARE FOR TIME SERIES ANALYSIS*

Abstract: Time series analysis is an important topic both for teaching statistics and research. The time series approach is used to predict future values based on the history of past values. Previous results in time series analysis methodologies, relevant applications and software development for time series analysis motivate us to promote a recently developed extendable Java-based tool for time series analysis. The software design methodology, the implemented algorithms and the extension methodology are detailed.

Keywords: time series, extendable software, component-based development, Java