ARGESIM Benchmarks: A Comparison for Different Simulation Environments

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**Abstract.** The research group Mathematical Modelling and Simulation is located at the Vienna University of Technology. In this field of study there also exists a German speaking simulation society called ASIM. Organisationally, ASIM is a part of the GI - Gesellschaft für Informatik, the German Association for Informatics. ASIM is governed by an executive board consisting of elected members and of heads of working groups. It is organised in different working groups: Methods in Modelling and Simulation, Simulation in Environmental Sciences, Medicine and Biology, Simulation of Technical Systems, Simulation in Production and Logistics, Simulation of Traffic Systems and Simulation in Business Administration: Therefore the members of this group are working in different fields of studies and applications and models are interdisciplinary.
There is also a European simulation society called EUROSIM. EUROSIM, the Federation of European Simulation Societies, was set up in 1989. The purpose of EUROSIM is to provide a European forum for regional and national simulation societies to promote the advancement of modelling and simulation in industry, research and development. Each European country is represented by its modelling and simulation society, or by a federation of regional societies. Groups and societies dealing with modelling and simulation are invited to co-operate with EUROSIM. EUROSIM has a publications emphasizing on modelling and simulation which is called Simulation Notes Europe (SNE). This journal features a series on comparisons of simulation software. Based on simple, easily comprehensible models special features of modelling and experimentation within simulation languages, also with respect to an application area, are compared. More than twenty Benchmarks have been defined in Simulation News Europe. These Benchmarks cover a wide field of the interesting areas regarding modelling and simulation. A Benchmark contains a comparison of different simulation environments dealing with the same problem. After the review process appropriate comparisons can be published in the Simulation Notes Europe.

**Keywords**: Modelling and Simulation, Benchmark, Mathematics