

## Benchmarks for Modelling and Simulation of Discrete Systems – Development and Trends

Felix Breitenecker<sup>1</sup>, Andreas Körner<sup>1</sup>, Martin Bicher<sup>1,2</sup>, Nikolas Popper<sup>1,2</sup>

<sup>1</sup>Vienna Univ. of Technology, Dept. Math. Modelling and Simulation,  
Wiedner Hauptstraße 8-10, 1040 Vienna, Austria

<sup>2</sup>dwh Simulation Services, Neustiftgasse 57-59, 1070, Vienna, Austria  
{felix.Breitenecker, andreas.Koerner}@tuwien.ac.at, nikolas.popper@dwh.at

**Abstract.** The journal SNE – Simulation Notes Europe, [www.sne-journal.org](http://www.sne-journal.org) - publishes since 1992 benchmarks for modelling approaches and simulation implementations. This contribution summarizes the benchmarks for modelling and simulation of discrete systems, with emphasis on the new benchmark C20 ‘Complex Production System’ and discusses extensions wrt. agent-based approaches and co-simulation.

**Keywords:** Modelling Approaches, Simulation Software