Konstanz

Universität Konstanz

Frauen in der Mathematik

Donnerstag 13.11.2014 Raum: F426
17:00-18:15

Material flow problems

Prof. Dr. Simone Göttlich

(University of Mannheim School of Business Informatics and Mathematics)

Abstract: Material flow systems are usually divided into a microscopic and a macroscopic model scale. On the one hand macroscopic flow models are used for large scale simulations with a large number of parts. On the other hand microscopic models are needed to describe the details of the production process. We present an overview of models for material flow problems ranging from detailed microscopic models to macroscopic models based on conservation laws. Numerical simulations are presented on all levels of the hierarchy and validated against real-data test settings. The investigation of optimal control problems arising in this context is also discussed.

http://www.math.uni-konstanz.de/~goel/WIM

Unterstützt durch Gleichstellungsrat der Universität Konstanz