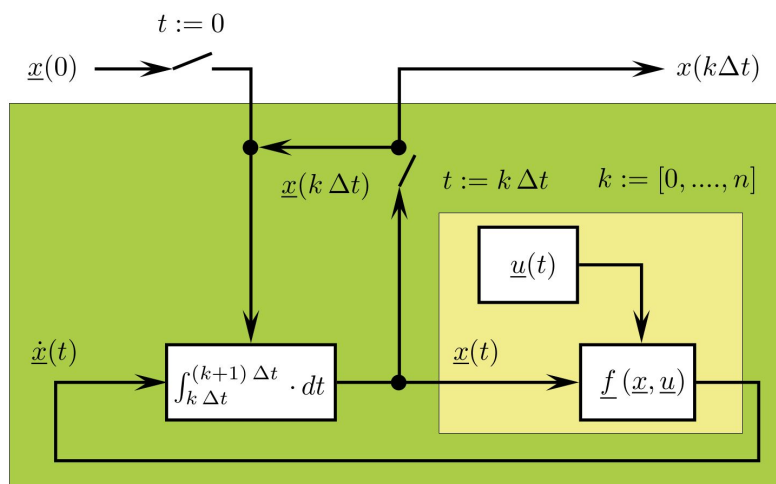# Building a dynamic model simulator

Background

We are building on a new modelling tool expanding on three previous generations of modelling tools. The modelling tool implements a step-wise approach to modelling as it is being taught in Process Modelling and the Systems Engineering course.

Description

The objective of this project is to generate a dynamic model simulator, as illustrated in the included figure, that converts a defined model into executable program code.

The key to the construction of a dynamic model simulator is to map the algebra and the algorithmic part of a problem into code and how to do this automatically. This will involve generating code templates and implement that code into essentially any targeted programming language.

An excellent opportunity to learn more about modelling and programming.

Supervision

Supervisor: Heinz A Preisig
Daily contact: Arne Tobias Elve