Evaluation of Modelling Notations for Basic Software Engineering in Process Control

Abstract:
Process engineers and process control engineers need to discuss the functionality of a plant in an early phase of a project. A "language" to communicate between these different skilled engineers is necessary, which is based on the requirements of the process itself. The quality of the notion is strongly depending on an appropriate modeling concept for the process characteristics. The use of ICL (idiomatic control language) and UML (unified modeling language) will be compared and evaluated for modeling in basic engineering. It addresses to process engineers, process control engineers and technicians. The model should be used for code generation for PLC or DCS systems.