Extension of Simulation Environment for Networked Control Systems

- **Background:** Coupling of Matlab/Simulink and a network simulator (OMNeT++) for the simulation of networked control systems

- Matlab/Simulink - Simulation of continuous time (physical) system and control algorithms

- OMNeT++ - C++ framework for event-based simulation of communication networks

- **Goal:** Extension of an existing co-simulation framework for the coupling of Simulink and OMNeT++

- **Requirements:** Programming skills in Matlab/Simulink and C++

- Bachelor project, master project or master thesis (scalable)
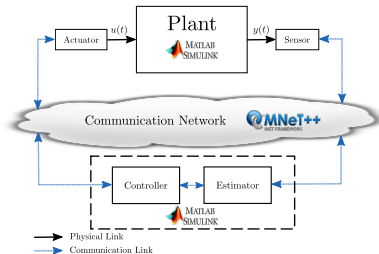
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Figure: Networked Control System (NCS)