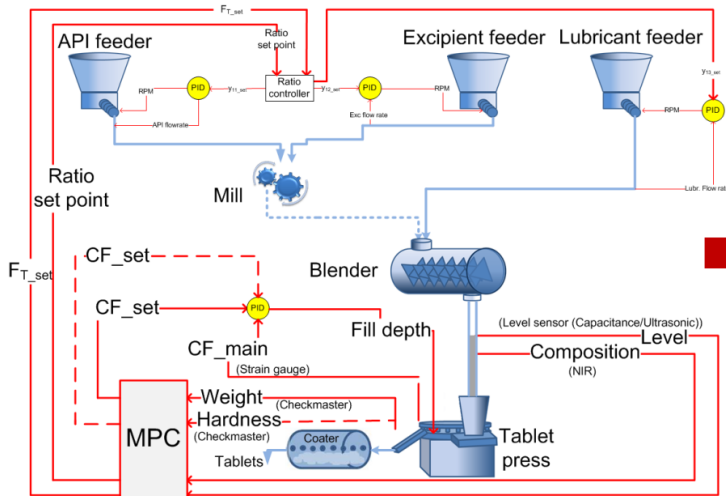




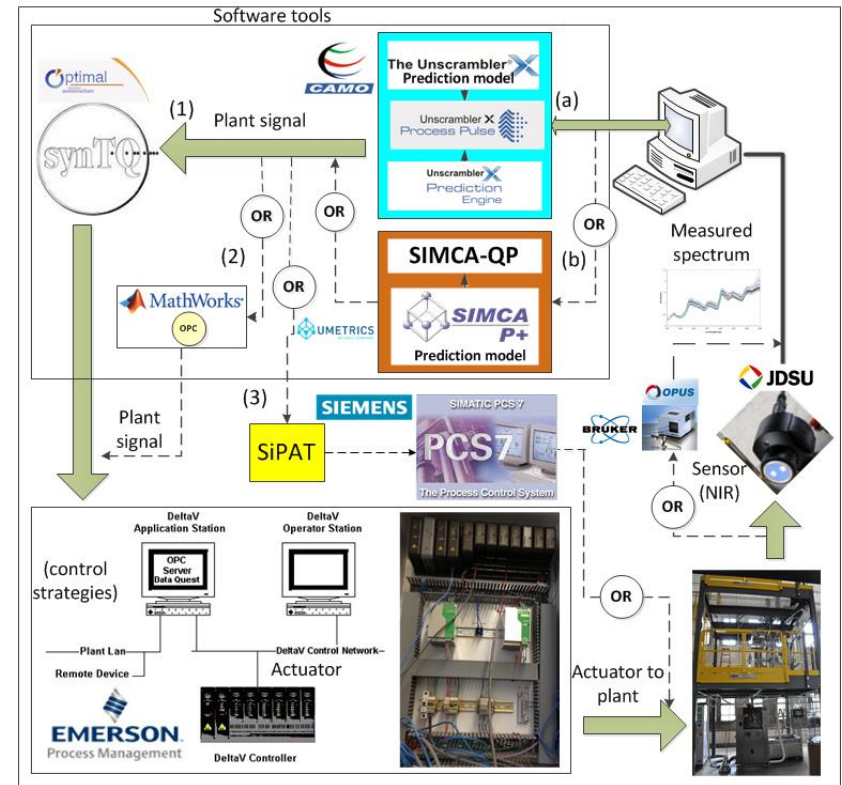
Ravendra Singh

- ❖ **Motivation:** QbD and PAT based closed-loop operation of continuous tablet manufacturing process for enhanced product quality and real time release.
- ❖ **Goals:** The goal of this work is to design the control system, to integrate control hardware and software and to implement the regulatory as well as advanced model predictive control system into continuous pharmaceutical manufacturing process.

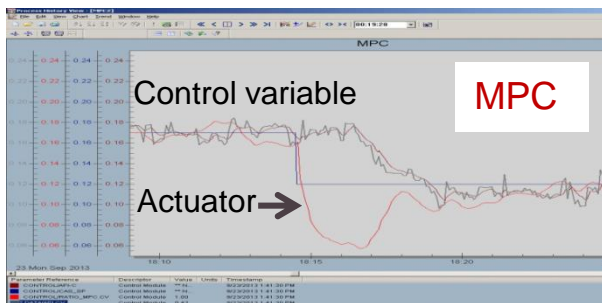
Control system design



Control system implementation



API composition



Closed-loop operation



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