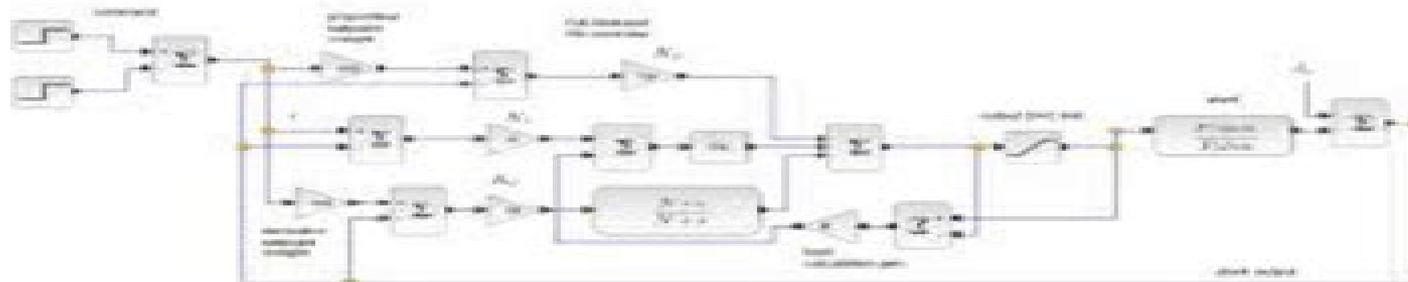


Advanced PID Controller Implementation



In this digital era, PID controllers have evolved from basic textbook structure to more sophisticated algorithms. Features such as setpoint/derivative weightings and anti-windup scheme are often added to improve the closed-loop response. In our previous article *A Decorated PID Controller*, we consider a PID structure with modification and additional functions as follows

- To lessen the effect of measurement noise, derivative part is implemented as a filter with parameter α
- Back calculation anti-windup scheme is implemented with tracking gain K_t
- Setpoint weightings for proportional and derivative paths can be adjusted via β and γ , respectively

A feedback diagram with this advanced PID controller is constructed using Xcos palettes as in Figure 1.

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