



-DC3

-PFC

-RST

(predictive with third order model and delay)

(functional generalized predictive)

the real process in order to find the best advanced controller with the best parameters.

## Real time Identification

•We collected data from the real process to study how reacts the process when it's stimulated. To do that, we use an innovative and useful method. We sent a SPBA (a binary sequence pseudo random which has the particularity to be rich in frequency so we could identify every system order) to the PLC from Matlab and collected the flow with Matlab and DataStore.

•We used the advantage of Matlab (fast and easy computing) to do the identification in real time instead of computing in a complicated way, a system in Unity or PVSS!

•This architecture is very adaptive, easy and fast to reuse or modify.

 Another advantage is that we don't need to modify the Unity and PVSS programs so we are sure that nothing will degrade them.

