





PITA PAPER*matters!* 2018 Conference & Exhibition at Lancaster University

Consortium Project: "Simulation aided Control of Drying Process" Peter Fisera (ProcSim)

PAPERmatters 2018!

The Presentations

Peter Fisera Procsim



Peter worked for SAPPI and Andritz worldwide in pulp cooking, washing and drying processes for more than 25 years. Heaving enough experience I started own company Procsim = Process Simulations 8 years ago (see <u>www.procsim.eu</u>). In this time I cooperated with Voith, Mondi, TU Graz, AutomationX and other organisations on digitisation of technological Processes. I believe that the simulation is the most effective way to discover potentials for improvements.



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Innovative control technology is based on two nearly identical processes (real and virtual) running in parallel. This technology enables to derive so far not available and difficult-to-measure new process values					
	Virtual Paper Machine		parallel simulated values	new derived values	
		Û	Ţ	Ţ	-
	Control system	set point	s		
		Ţ	Î		
	Real Paper Machine		measured values		

Automation V Pup and Paper Consulting
Second methodology point: Use this model to design a multivariable model predictive controller! The control technology is based on new software architecture
eDRY – Simulation aided control Optimizing functions Virtual Paper Machine Existing Control System Existing Control System Real Paper Set Points Measurements















