Session 3.3

Process Control Applications

Adaptive Control of Three-Tank-System: Polynomial Approach

M. Kubalcik and V. Bobal
Tomas Bata University

Agent-Based Control of Spatially Distributed Chemical Reactor Networks

E. Tatara, M. North, C. Hood, F. Teymour and A. Cinar
Illinois Institute of Technology

Control of Liquid Tanks using Decentralized Approach with Logical Supervisor

P. Chalupa and V. Bobál
Tomas Bata University

Injection Velocity Control Based-on an Iterative Learning and Feedback Combined Controller

Y. Yang and F. Gao
Hong Kong University of Science and Technology

Controlling the Performance of a Cyclone Oil-Water Separation System

G. Cavalcanti, N. Magno, A. Calil and E. L. Lima
Petrobras

Robust MPC of the Refining Stage of an Electric Arc Furnace

L.C. Coetzee, I.K. Craig
University of Pretoria

Dynamics and Control of Reactive Distillation Configurations for Acetic Acid Esterification

S.-B. Hung, Y.-T. Tang, Y.-W. Chen, I-K. Lai, W.-J. Hung, H.-P. Huang, M.-J. Lee and C.-C. Yu
National Taiwan University of Science and Technology

A Wavelet Filtering Application For On-Line Dynamic Data Reconciliation

K.-Y. Luo and H.-P. Huang
National Taiwan University of Science and Technology

Constrained Nonlinear Model Predictive Control for Practical Application

A. G. Montandon1, R. M. Borges and H. M. Henrique
Federal University of Uberlândia

Multivariable Subspace Identification and Predictive Control of a Heat-Integrated Superfractionator

G. Pannocchia A. Micchi, R. Bulleri, A. Brambilla, and G. Marchetti
University of Pisa

Control Strategies Evaluation for a Three-Phase Hydrogenation Catalytic Reactor

D. N. C. Melo, E. C. Vasco de Toledo, M. M. Santos and R. M. Filho
State University of Campinas

On Input-Output Selection for Multiloop Control: from RGA to ROMA

A. Balestrino, A. Landi
University of Pisa

Design and Control of a Power Generation System for a Fuel-Cell Powered Automobile

P. K. Kolavennu, S. Palanki, and J. C. Telotte
Florida State University

Output-Feedback Control of Continuous Polymer Reactors with Continuous and Discrete Measurements,

P. Gonzalez and J. Alvarez
Universidad Autonoma Metropolitana-Iztapalapa

Auto-Tuning of PID Controllers for MIMO Processes by Relay Feedback

L. Campestrini, P. R. Barros and A. S. Bazanella
Universidade Federal do Rio Grande do Sul

Regulatory Control of a Pilot Rotary Kiln for Activated Carbon Production

O. A. Ortiz, N. Aros and I. G. Suarez
Universidad Nacional de San Juan

Development of an Extruder Based Melt Index Soft Sensor

I. R. Alleyne, S. Shah, U. Sundararaj and B. West
University of Alberta