

Literature related to BSMs

Year 2007

Zaher U., Grau P., Benedetti L., Ayesa E., Vanrolleghem P.A. (2007) Transformers for interfacing anaerobic digestion models to pre- and post-treatment processes in a plant-wide modelling context, *Environmental Modelling & Software* 22, 40-58

Stare A., Vrečko D., Hvala N., Strmčnik S. (2007) Comparison of control strategies for nitrogen removal in an activated sludge process in terms of operating costs: A simulation study. *Water Research* 41, 2004 – 2014

Year 2006

Rosen C., Vrecko D., Gernaey K.V., Pons M.N., Jeppsson U. (2006) Implementing ADM1 for plant-wide benchmark simulations in Matlab/Simulink, *Water Science and Technology* vol 54, no 4, pp 11–19

Jeppsson, U., Rosen, C., Alex, J., Copp, J., Gernaey, K.V., Pons, M.-N., Vanrolleghem, P. (2006), “Towards a benchmark simulation model for plant-wide control strategy performance evaluation of WWTPs”. *Water Science and Technology*, vol. 53, no. 1, pp. 287-295.

Year 2005

Comas, J., Rodríguez-Roda, I., Poch, M., Gernaey, K.V., Rosen, C., Jeppsson, U. (2005), “Extension of the IWA/COST simulation benchmark to include expert reasoning for system performance evaluation”. *2nd IWA Conference on Instrumentation, Control and Automation*, 29 May – 2 June 2005, Busan, Korea (to appear in WST).

Gernaey, K.V., Rosen, C., Jeppsson, U. (2005), “WWTP dynamic disturbance modelling – an essential module for long-term benchmarking development”. *2nd IWA Conference on Instrumentation, Control and Automation*, 29 May – 2 June 2005, Busan, Korea (submitted to WST).

Gernaey, K.V., Rosen, C., Jeppsson, U. (2005), “Phenomenological modelling of wastewater treatment plant influent disturbance scenarios”. *10th International Conference on urban Drainage (10ICUD)*, 21-26 August 2005, Copenhagen, Denmark (submitted to WST).

Rosen, C., Vrecko, D., Gernaey, K.V., Jeppsson, U. (2005), “Implementing ADM1 for benchmark simulations in Matlab/Simulink”. *1st ADM1 Workshop*, September 4-6 2005, Copenhagen, Denmark (to appear in WST).

Vanrolleghem, P.A., Rosen, C., Zaher, U., Copp, J., Benedetti, L., Ayesa, E., Jeppsson, U. (2005), “Continuity based interfacing of models for wastewater systems described by Peterson matrices”, *Water Science and Technology*, vol. 52, no. 1-2, pp. 493-500.

Comas J., Rodríguez-Roda I., Poch M., Gernaey K.V., Rosen C. Jeppsson U. (2005), “Demonstration of a tool for automatic learning and reuse of knowledge in the activated sludge process”, *2nd IWA Conference on Instrumentation, Control and Automation*, 29 May - 2 June 2005, Busan, Korea (to appear in WST).

Volcke E.I.P., Van Hulle S.W.H., Donckels B.M.R., van Loosdrecht M.C.M., Vanrolleghem P.A. (2005) “Coupling the SHARON process with Anammox: Model-based scenario analysis with focus on operating costs”, *Water Science and Technology*, vol. 52, no. 4, pp. 107-115.

Year 2004

Jeppsson, U., Pons, M.-N. (2004), “The COST 624 benchmark simulation model – current state and future perspective”. Invited paper. *Control Engineering Practice*, vol. 12, issue 3, pp. 299-304.

Rosen, C., Jeppsson, U., Vanrolleghem, P.A. (2004), “A common benchmark for long-time control evaluation and monitoring methodology testing”, *Water Science and Technology*, vol. 50, no. 11, pp 41-49.

Year 2003

Copp, J.B., Jeppsson, U., Rosen, C. (2003), "Towards an ASM1 – ADM1 state variable interface for plant-wide wastewater treatment modeling". *Water Environment Federation Conference WEFTEC 2003*, Los Angeles, California, USA, Oct. 11-15, 2003.

Rieger L., Alex J., Winkler S., Boehler M., Thomann M., Siegrist H. (2003), "Progress in sensor technology – progress in process control? Part I: Sensor property investigation and Classification", *Water Science and Technology*, 47(2) 103-112.

Alex J., Rieger L., Winkler S., Siegrist H. (2003), "Progress in sensor technology – progress in process control? Part II: results from a simulation benchmark study", *Water Science and Technology*, 47(2) 113-120.