

even under the influence of the static disturbance. Control of identified processes with use of PID controllers tuned according to the found models ended successfully in all cases at the set point. The proposed auto tuning algorithm for PID controllers implemented in Tecomat Foxtrot PLC is now tested on both stable and unstable systems. The achieved results in comparison with alternative auto tuning algorithms support the assumption of a prospective extension of the proposed algorithm into common practice.

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