

ecICP

Intelligent Controller Parametrization Package



What is ecICP?

ecICP is a powerful software tool, which allows a fully automatic, model-based control systems design based on measurement data.

It does not require specific know-how in control theory.

Application Areas

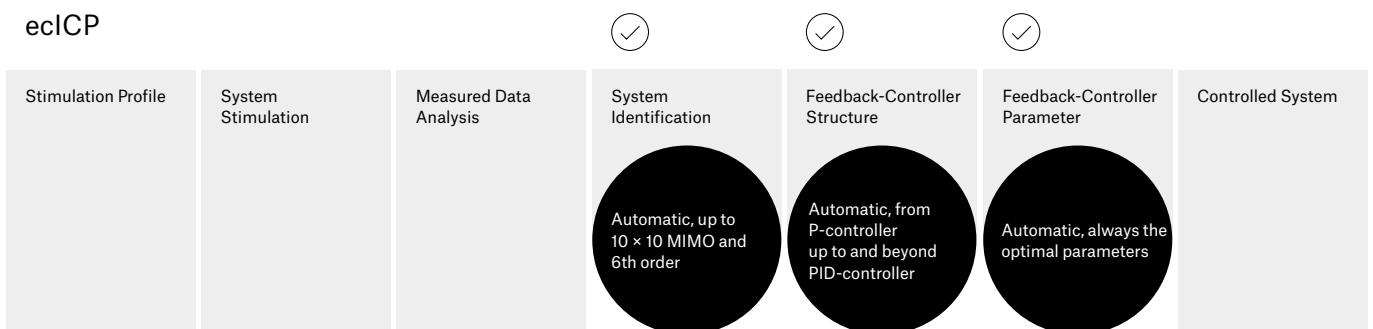
ecICP can be applied for control systems design across domains and industries, especially if conventional methods fail due to missing information.

Current applications include test bench control, process engineering, building automation, drivetrain and steering control in the automobile industry and much more.

Your Benefits

- + efficient control systems design, even for highly complex feedback control systems.
- + independent of any third-party product.
- + start without concerns: Initial 12 months license fee includes maintenance and support.
- + maximum cost transparency for your projects: renewal can be chosen on a monthly basis after the initial phase.
- + self-determined licensing period: no automatic extension.
- + take a break — renewal until 12 months after the expiry date.
- + flexible working in an agile development environment — no named user licenses for company-wide usage.

ecICP



ecICP Highlights

- + fully automatic model-based control systems design
- + transfer functions and controller parameters in one click
- + control design according to desired transition times (setpoint and disturbances)
- + state control for time-variant, nonlinear, dead-time MIMO-systems

How to use ecICP

- + input system data: representative data from measurements or simulation
- + define required operating ranges
- + determine the system order
- + automatic system identification for MIMO up to 6th order
- + automatic control design: from P-controller up to PID-controller or beyond, always with optimal parameters
- + output: transfer functions and controller parameters for further use in simulation or in real operation of systems and components
- + additional information: input filters for measurement and setpoint data, and ideal sample rate.

System Requirements

- + Windows 7 / 10
- + Only system data required (measurement data or simulation data)

Application example

