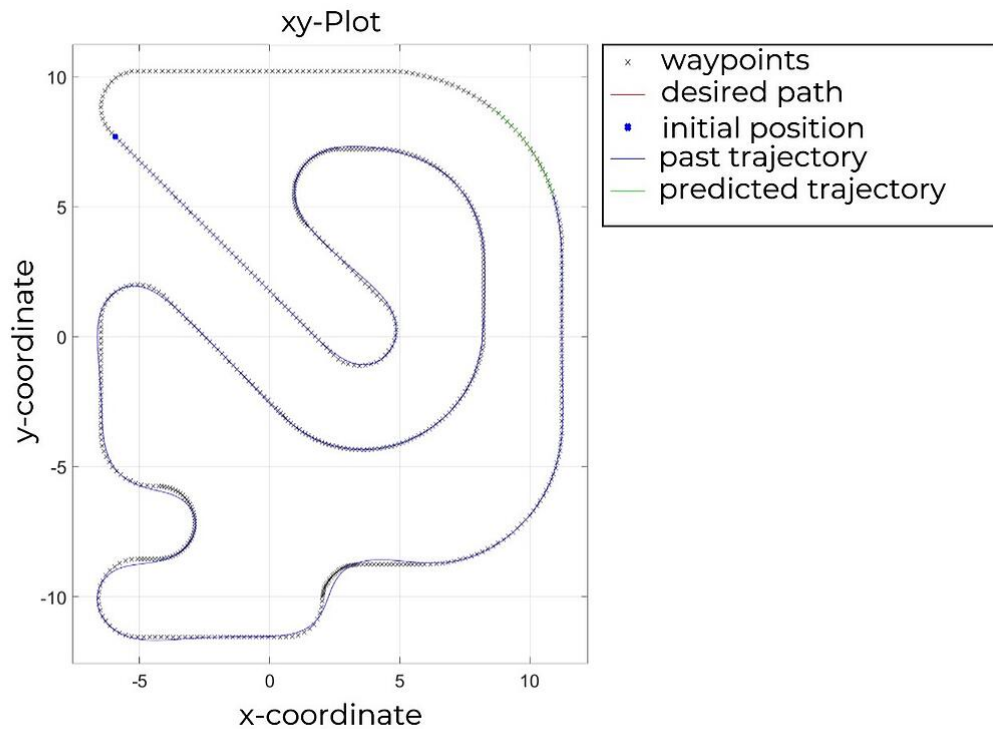


FORCESPRO 5.1 Release

FORCESPRO

Open-loop simulation functionality and advanced path tracking example

- **Open-loop simulation**: Model Predictive Control with a continuous-time model relies on open-loop simulation of the system dynamics. FORCESPRO features high-performance numerical integrators. Now, you can use the new release FORCESPRO 5.1 to run stand-alone open-loop simulations of system dynamics, cost function, the constraint functions and their derivative functions. This feature allows you to validate the various functions as well as to set up closed-loop simulations of the MPC algorithm.
- **New path tracking example**: The latest release also comes with an advanced example for hands-on application of FORCESPRO. The example deals with automotive path tracking for automated driving. Acceleration force and steering angle are optimized to follow a reference path while respecting the system dynamics. The computational efficiency of the FORCESPRO SQP solver results in a maximum computation time of only 400 microseconds when doing a single QP iteration at each solver call.



Support of MATLAB® 2021b: You can use the new FORCESPRO version including the [Model Predictive Control Toolbox™](#) plugin within MATLAB® 2021b.

You can find a list of all algorithmic improvements in the [Release Notes of FORCESPRO](#).

Existing users can easily switch to the new version by using our [auto-update function](#).

Alternatively, you can use the new server at: <https://forces-5-1-0.embotech.com>

Note: Version 4.2.0 will go offline as of February 15, 2022.

Connect with us





Copyright © 2021 Embotech AG, All rights reserved.

You are receiving this email because you are a FORCESPRO user.

Want to change how you receive these emails?

Embotech AG, Giessereistrasse 18, Zurich, ZH 8005, Switzerland

[Unsubscribe](#) [Manage preferences](#)