

Feedback Control after 1940

Further developments in control systems were a direct result of World War II ...

- ▶ fire control (anti-aircraft, ships, automated aiming ...)
- ▶ ballistics and guidance systems (autopilot, gyro compass ...)

... and the Cold War:

- ▶ unmanned and manned space flight
- ▶ control with humans in the loop (Norbert Wiener's cybernetics)
- ▶ communication networks ...

The aerospace industry was at the forefront of control technology because of extreme demands for safety and performance. It was one of the early adopters of [state-space methods](#), e.g., the use of [Kalman filter](#) for navigation in the Apollo Project.