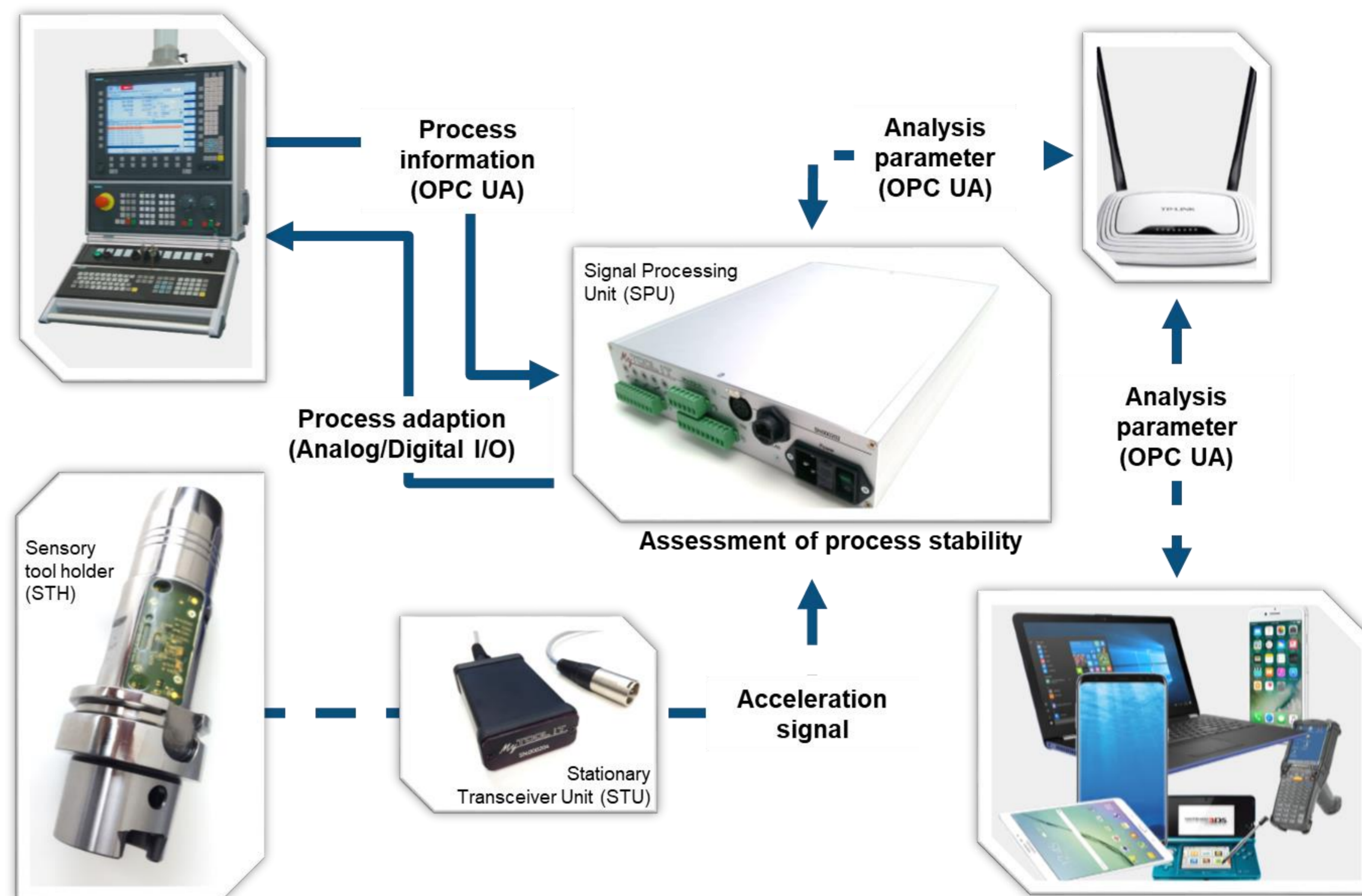


# Adaptive control system with a sensory tool holder

In order to detect and avoid the occurrence of milling process instabilities, e. g. chatter, in an early stage, the Institute for Production Engineering and Laser Technology (IFT) together with the MyTool IT GmbH developed an active control system to allow an in-process adaption of machining parameters. This system consists of a sensory tool holder with an implemented acceleration sensor and a wireless data transmission. Furthermore, a signal processing unit analyses the received signal and is coupled to the NC- control system of the machine tool to apply new set points for feed rate and rotational speed depending on defined optimization strategies. By the implementation of this system, process instabilities can be avoided.

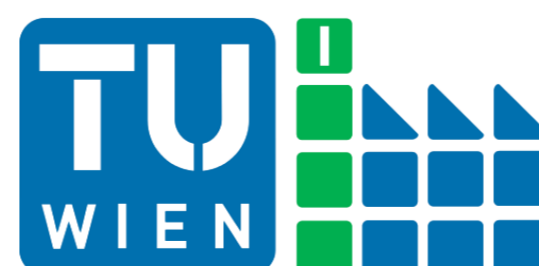


*My* **TOOL IT**

## Ansprechpartner:

Institut für Fertigungstechnik und Hochleistungslasertechnik  
Dipl.-Ing. Paul Schörghofer | schoerghofer@ift.at  
www.ift.at

Plakat herunterladen



Pilotfabrik  
Industrie 4.0



IFT Institut für Fertigungstechnik  
und Hochleistungslasertechnik

