

# Workshop

## Flatness-Based Control

### An example-based introduction



**Prof. Dr.-Ing. habil. Joachim Rudolph**  
(Saarland University, Germany)

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Flatness-based control is a powerful method for the model-based control of nonlinear systems that has also found its way into demanding industrial applications. The example-based presentation of this introductory lecture establishes the fundamentals of the method using only basic mathematical tools and without much prerequisites from linear control theory. Explicit lecture notes will help participants to further deepen their understanding of the approach.

Professor Rudolph is known as one of the leading experts in the field. He has not only contributed to the theory, but together with his partners he has also realized a number of outstanding industrial applications, specifically in the field of mechatronics. Furthermore, together with his co-authors he has extended the methods to infinite-dimensional systems. He has been teaching the subject at several universities for more than 20 years.

**time:** 22<sup>nd</sup> to 26<sup>th</sup> March 2021, always 13:45 to 17:00 via Zoom

**participation:** free of charge, registration required until 14<sup>th</sup> March 2021  
(email at [office.regpro@jku.at](mailto:office.regpro@jku.at))