

## SEMINARVORTRAG

Das Institut für Mathematik und das Digital Science Center  
laden zu folgendem Vortrag ein:

### **Sebastien Court**

#### **Designing mathematical tools with Machine/Deep Learning techniques**

The aim of this interactive talk is to develop ideas for creating connections between Mathematics and the trendy topic of Machine/Deep Learning. We will first set the Mathematical context, made of optimal control theory, optimization algorithms, and differential equations modeling empirical phenomena. Next, we will present Machine Learning and Deep learning techniques, in order to address a general class of problems which consist in minimizing the distance between the model outputs and the data. Finally, we will give ideas to import the philosophy of Deep Learning, in order to design mathematical models and tools, such as partial differential equations, numerical schemes and algorithms.

Zeit: **Mittwoch, den 10. Juli 2019 um 11.00 Uhr**

Ort: **Technikerstraße 13b, HSB 4**

**Gäste sind herzlich willkommen!**