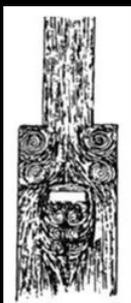


Data Driven Engineering I

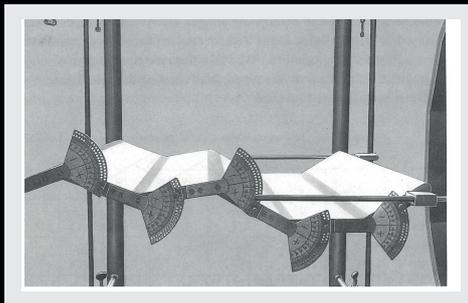
Machine Learning for Dynamical Systems

Data-driven methods are changing the way we visualize, model, interpret and control complex systems. The landscape is diverse: developments in the measurement and modeling of multiphase flows and turbulence, product design, molecular engineering, energy systems and management, diagnosis/prognosis, process control are just a glimpse of what is on the horizon.

In this course, you will build up the fundamental skills and gain experience in developing intelligent solutions for model abstractions, pattern recognition in experimental/numerical datasets, optimization and process control. The course includes weekly software labs in **TensorFlow** for hands-on experience and concludes with an End-to-End Machine Learning Project.



Leonardo da Vinci
1452-1519



Rechenberg's experiment, Berlin
1964



Flow Simulation with GNS
Gonzales et al., 2020



Interested?