



universität  
wien

**Fakultät für Mathematik**  
Oskar-Morgenstern-Platz 1  
A-1090 Vienna  
Austria

<https://owos.univie.ac.at>

## ONE WORLD OPTIMIZATION SEMINAR

June 21<sup>st</sup> 2021 @ 15:30 CEST (Central European Summer Time)

**THOMAS POCK**

**(Graz University of Technology)**

### **Learning with Markov Random Field Models for Computer Vision**

**Abstract.** In this talk I will show how learning techniques can be used to significantly improve the quality of discrete Markov Random Field (MRF) models. I will start by discussing fast algorithms that combine dynamic programming with continuous optimization for solving MRF models. I then show how their potentials can be learned from data to achieve state-of-the-art performance for computer vision tasks such as stereo, optical flow and image segmentation.

*The link of the zoom-room of the meeting and the corresponding password will be announced the day before the talk on the mailing list of the seminar, to which one can subscribe on <https://owos.univie.ac.at>.*