



universität  
wien

**Fakultät für Mathematik**

Oskar-Morgenstern-Platz 1

A-1090 Vienna

Austria

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

## ONE WORLD OPTIMIZATION SEMINAR

November 11<sup>th</sup> 2021 @ 15:30 CEST (Central European Summer Time)

**ERNEST RYU**

(Seoul National University)

### **Non-Nesterov Acceleration Methods for Making Gradients Small in Convex Minimization and Convex-Concave Minimax Optimization**

**Abstract.** In this talk, we present recent advances in accelerated methods for making gradients small in convex optimization, fixed-point iterations, and convex-concave minimax optimization. These acceleration mechanisms are distinct from Nesterov's acceleration. We will discuss the interaction between the computer-assisted performance estimation problem methodology and the non-computer assisted Lyapunov analyses utilized in the discovery and analysis of these methods.

*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>.*