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FAKULTÄT FÜR MATHEMATIK  
Univ.-Prof. Dr. Radu Ioan Bot, Privatdoz.

Einladung zur öffentlichen Defensio von

**Axel Böhm**

Thema der Dissertation

**Quantitative convergence estimates of deterministic and stochastic methods  
for optimization and minimax problem**

**Abstract:**

We study the worst case complexity of various first order optimization methods for composite minimization and saddle point problems. The nonsmoothness arising in these problems is tackled via \*full splitting\* methods resulting in easy to implement algorithms. By emphasising the use of stochastic (randomized) methods we are able to present applications in machine learning such as matrix completion and the training of generative adversarial networks.

Prüfungssenat:

Univ.-Prof. Mag. Dr. Andreas Cap  
(Vorsitz)  
(Universität Wien)

Univ.-Prof. Dr. Radu Ioan Bot, Privatdoz.,  
Privatdoz.(Universität Wien )

Prof. Dr. Peter Richtarik  
(King Abdullah University of Science and  
Technology )

Prof Dr. Simon Lacoste-Julien  
(University of Montreal)

**Zeit:** Freitag, 30. Oktober 2020, 15:00 Uhr

**Ort:**

Join Zoom Meeting  
<https://us02web.zoom.us/j/83007201160>

Meeting ID: 830 0720 1160  
Passcode: 2MWNid