

May 15 - 19, 2017



Nonsmooth Optimization and its Applications

Organizers: Seyedehsomayeh Hosseini, Boris Mordukhovich, André Uschmajew
Location: Lipschitz Hall, Endenicher Allee 60

As many problems in computer vision, robotics, signal processing and geometric mechanics are expressed as nonsmooth optimization problems, the huge impact of efficient methods to solve these problems is undeniable. Even solving difficult smooth problems sometimes leads to the use of nonsmooth optimization methods to make the problem either smaller in dimension or simpler in structure. It also may happen that a problem is analytically smooth, but numerically nonsmooth. Therefore, it is of eminent interest to develop useful computational and theoretical tools in these situations as well.

This workshop on nonsmooth optimization techniques and their applications will bring together leading experts from different research groups from all over the world to present the latest theoretical and practical achievements in this growing field, fostering collaboration and discussing future developments. Topics include, but are not limited to nonsmooth and variational analysis, optimization methods and their convergence analysis, applications in image processing, machine learning, etc.

Invited speakers:

Pierre-Antoine Absil
Miroslav Bacak
Adil Baghirova
Radu Bot
James Burke
Coralia Cartis
Aris Daniilidis

Dmitriy Drusvyatskiy
Helmut Gfrerer
Rene Henrion
Michael Hintermüller
Napsu Karmitsa
Yuri Ledyayev
Russell Luke

Marko Mäkelä
Boris S. Mordukhovich
Dominikus Noll
Diethard Pallaschke
Panagote Pardalos
Claudia Sagastizábal
Hermann Schichl

Mikhail Solodov
Sona Taheri
Michel Théra
Michael Ulbrich
Stefan Ulbrich
Shawn Wang



Limited funding may be available to help with local expenses.
In case of questions regarding this workshop,
please contact noa2017@hcm.uni-bonn.de.

www.hcm.uni-bonn.de/nonsmooth-optimization-2017/