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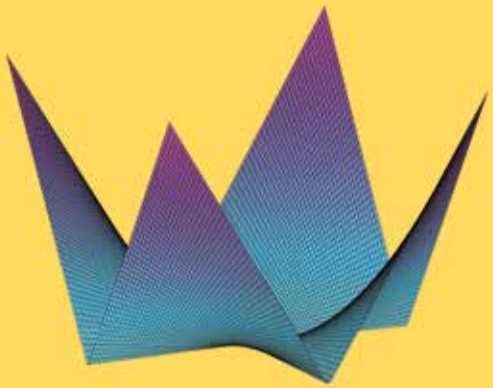
universität bonn

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	Dmitriy Drusvyatskiy	Marko Mäkelä	Mikhail Solodov
Miroslav Bacak	Helmut Gfrerer	Boris S. Mordukhovich	Sona Taheri
Adil Baghirov	Rene Henrion	Dominikus Noll	Michel Théra
Radu Bot	Michael Hintermüller	Diethard Pallaschke	Michael Ulbrich
James Burke	Napsu Karmitsa	Panagote Pardalos	Stefan Ulbrich
Coralia Cartis	Yuri Ledyaev	Claudia Sagastizábal	Shawn Wang
Aris Daniilidis	Russell Luke	Hermann Schichl	

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/