

VORTRÄGE

15:45 Kaffeejause

Mittwoch, 14. März 2018 16:15 bis 17:15, Sky Lounge, 12. OG, OMP 1

Mathematisches Kolloquium: Marc Teboulle (Tel-Aviv University): "Everything Old is New Again: The Return of Gradient Based Optimization Methods"

Org: Radu Bot

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/20180314_MarcTeboulle.pdf

***Abstract:** The gradient method, forged by Cauchy about 170 years ago, has regained over the last decade a strong revived interest in modern optimization through many of its variants and relatives known as First Order Methods (FOM). This renewed interest in FOM has emerged from the current high demand in solving optimization problems arising in a wide spectrum of modern applications, e.g., in signal processing, image sciences, machine learning and physics. These problems are often ill-posed, nonsmooth, convex or nonconvex, and typically very large or even huge scale. This rules out the option of using sophisticated algorithms, such as Newton types schemes (e.g., involving inversion of matrices) which often become prohibitively expensive. Elementary first order methods using function values and gradient/subgradient information then often remain our best alternative to tackle such large scale optimization problems. In turn, this rich collection of applied problems is providing fresh perspectives for optimization algorithms leading to new fundamental research with challenging theoretical and computational questions in the field. We discuss some recent research in this domain where gradient based optimization algorithms have been developed and applied successfully in various areas. In particular, we highlight the ways in which mathematical structures/data information can be beneficially exploited to design and analyze simple convex and nonconvex optimization methods. The talk is intended to a wide audience. We will assume (almost) no prior knowledge in continuous optimization.*

vinum cum pane im Anschluss

Montag, 12. März 2018 09:00 bis Freitag, 16. März 2018 12:15, ESI, Boltzmann Lecture Hall, Boltzmannngasse 9/2, 1090 Wien

ESI-Workshop: "Mathematical Aspects of Physical Oceanography"

Org: A. Constantin, G. Haller, S. Monismith, T. Sapsis

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/AHM_WS.pdf

Montag, 12. März 2018 09:15 bis 11:15, PC SR 03, OMP 1, Untergeschoß -1

PDE-Minicourse: Matteo Tommasini (Univ. Wien): "Introduction to HTML-Basic HTML syntax"

Org: SFB, DK

<https://www.univie.ac.at/sfb65/public/events/details/?type=5&id=1>

Dienstag, 13. März 2018 09:00 bis Donnerstag, 15. März 2018 18:00, Sky Lounge, 12. OG, OMP 1
GAMENET Workshop: COST Action CA 16228 "European Network for Game Theory": "Games, Dynamics & Optimization (GDO 2018)"

Org: M. Staudigl, P. Mertikopoulos, R. Bot, I. Bomze

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Poster-6.pdf

Dienstag, 13. März 2018 14:00 bis 15:00, IST Austria, Am Campus 1, SR Mondi 2., Klosterneuburg
PDE-Afternoon: Clément Mouhot (Univ. of Cambridge, UK): "TBA"

Org: SFB, DK

Dienstag, 13. März 2018 15:00 bis 17:00, SR 10, 2 OG., OMP 1

Geometry and Analysis on Groups, Research SE: Anthony Genevois (Univ. Aix-Marseille/Univ. Wien): "A hyperbolic model for cubulable groups"

Org: G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/180313.html>

Dienstag, 13. März 2018 15:15 bis 16:15, Dissertantenraum, Freihaus, Turm A, 8. OG., Wiedner Hauptstr. 8-10, 1040 Wien

AG Diskrete Mathematik: Alexander Miller (Univ. Wien): "Milnor fiber complexes and some remarkable characters"

Org: Ch. Krattenthaler

<http://dmg.tuwien.ac.at/nfn/agdm.html>

Dienstag, 13. März 2018 15:30 bis 16:30, IST Austria, Am Campus 1, SR Mondi 2, Klosterneuburg
PDE-Afternoon: Greg Pavliotis (Imperial College London, UK): "Long time behaviour and phase transitions for the McKean-Vlasov equation"

Org: SFB, DK

<https://www.univie.ac.at/sfb65/public/events/details/?type=1&id=80>

Dienstag, 13. März 2018 16:15 bis 17:00, Fakultät für Physik, Erwin Schrödinger-Hörsaal, Boltzmannng. 5, 5. St., 1090 Wien

Teilchenphysik SE: Aditya Pathak (Univ. Wien): "Small-x Resummation form Effective Fields Theory"

Org: A. Hoang, H. Neufeld

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/SeminareinladungTeilchenphysik_Pathak_Maerz2018.pdf

Mittwoch, 14. März 2018 09:15 bis 10:15, BZ 9, 9.OG, OMP1

AG Biomathematik: Kristan Schneider (Univ. Mittweida): "Selection for HRP2/HRP3 deletions in Plasmodium-falciparum malaria"

Org: J. Hermisson, R. Bürger

<http://homepage.univie.ac.at/Reinhard.Buerger/AGBio.html>

Mittwoch, 14. März 2018 11:30 bis 13:00, BZ 2, 2. OG., OMP 1

SE Algebraische Geometrie: Herwig Hauser (Univ. Wien): "Einführung in den Vortrag von Ngo Bau Chau"

Org: H. Hauser

Donnerstag, 15. März 2018 14:00 bis 15:00, AG Gravitation, Währingerstr. 17, Raum 218, 2. OG

Literatur SE: Zoe Wyatt (Edinburgh): "The weak Null Condition and Kaluza Klein Spacetimes"

Org: P. T. Chrusciel

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/SeminareinladungGRAVI_Wyatt_Maerz2018.pdf

Donnerstag, 15. März 2018 16:00 bis 18:00, KGRC, lecture room, Währinger Str. 25, 1090 Wien

KGRC Seminar: Thilo Weinert (KGRC): "Cardinal Characteristics and Partition Properties"

Org: KGRC

http://www.logic.univie.ac.at/2018/Talk_03-15_a.html

Donnerstag, 15. März 2018 16:30 bis 18:00, Seminarraum, Freihaus, Roter Bereich, 7. OG, TU Wien, Wiedner Hauptstraße. 8, 1040 Wien

Vienna SE in Mathematical Finance and Probability: Matthias Meiners (Univ. of Innsbruck): "Convergence of Biggins' martingales at complex parameters"

<https://fam.tuwien.ac.at/events/vs-mfp/>

Freitag, 16. März 2018 15:15 bis 16:15, ESI, Lecture Hall, Boltzmannngasse 9/2, 1090 Wien

ESI Lecture: Mathematisches Kolloquium: Ngô Bảo Châu (University of Chicago): "On Weierstrass preparation theorem and local structure of arc spaces "

Org: Fakultät für Mathematik, Dekan Christian Krattenthaler

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/2018_Chau_ESL.pdf