

Vorträge

15:45 Uhr: Kaffeejause

Mittwoch, 18. Oktober 2017 16:15 bis 17:15, Sky Lounge, 12. OG, OMP 1

Mathematisches Kolloquium: Shahar Mendelson (Australian National University): "Statistical learning theory from a geometric viewpoint"

Org: Eichmair

Abstract:

Statistical Learning Theory is centred on finding ways in which random data can be used to approximate an unknown random variable. At the heart of the area is the following question: Let F be a class of functions defined on a probability space (Ω, μ) and let Y be an unknown random variable. Find some function that is (almost) as 'close' to Y as the 'best function' in F . A crucial facet of the problem is the information one has: both Y and the underlying probability measure μ are not known. Instead, the given data is an independent sample $(X_i, Y_i)_{i=1}^N$, selected according to the joint distribution of μ and Y . One has to design a procedure that receives as input the sample (and the identity of the class F) and returns an approximating function. The success of the procedure is measured by the tradeoff between the accuracy (level of approximation) and the confidence (probability) with which that accuracy is achieved. In the talk I explore some surprising connections the problem has with high-dimensional geometry. Specifically, I explain how geometric considerations played an instrumental role in the problem's recent solution-leading to the introduction of a prediction procedure that is optimal in a very strong sense and under minimal assumptions.

Vinum cum pane im Anschluss

BERUFUNGSVORTRÄGE Stochastik

Montag, 16. Oktober 2017 10:00 bis 10:20, Sky Lounge, 12. OG, OMP 1

Didaktischer Vortrag: Vadim Kaloshin (University of Maryland): "Can you hear the shape of a drum"

Montag, 16. Oktober 2017 10:30 bis 11:15, Sky Lounge, 12. OG, OMP 1

Wissenschaftlicher Vortrag: Vadim Kaloshin (University of Maryland): "Stochastic Arnold Diffusion"

Donnerstag, 19. Oktober 2017 10:00 bis 10:20, Sky Lounge, 12. OG, OMP 1

Didaktischer Vortrag: Nicolas Perkowski (Humboldt-Universität zu Berlin): "Das Gesetz der großen Zahl"

Donnerstag, 19. Oktober 2017 10:30 bis 11:15, Sky Lounge, 12. OG, OMP 1

Wissenschaftlicher Vortrag: Nicolas Perkowski (Humboldt-Universität zu Berlin): "Recent trends in singular stochastic partial differential equations"

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Teil2_Presentationstermine_m._Vortraegen_Stochastik.pdf

Montag, 16. Oktober 2017 09:30 bis Freitag, 20. Oktober 2017 15:30, ESI, Boltzmann Lecture Hall, Boltzmannngasse 9/2, 1090 Wien

ESI-Workshop 1 on Enumerative Combinatorics: Algorithmic and Enumerative Combinatorics

Org: M. Bousquet-Mélou (CNRS, U de Bordeaux), M. Drmota (TU Vienna), Ch. Krattenthaler (U Vienna), P. Paule, (U Linz), M. Singer (North Carolina State U, Raleigh)

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/KSB1.pdf

Montag, 16. Oktober 2017 11:00 bis 12:00, SR 13, 2 OG., OMP 1

Jie Lin: "On special values of automorphic L-functions"

Org: H. Grobner

Montag, 16. Oktober 2017 14:00 bis 15:00, SR 13, 2 OG., OMP 1

Gunja Sachdeva: "Special values of L-functions for $GL(3) \times GL(1)$ over a number field"

Org: H. Grobner

Montag, 16. Oktober 2017 14:30 bis 16:00, Fakultät für Physik, Boltzmannngasse/Strudlhofgasse, 3. OG., Christian-Doppler-HS

Seminar Mathematische Physik: Andrea Campoleoni (ETH-Zürich): "Higher-spin BMS symmetries in four dimensions and soft theorems"

Org: S. Fredenhagen

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Seminareinladung_Mathematik_Campoleoni_16Okt2017.pdf

Dienstag, 17. Oktober 2017 14:00 bis 15:30, SR 2, 1. OG, OMP 1

Defensio: Stefan Fördös (U Vienna, Masaryk U Brno): "Ultradifferentiable CR manifolds"

Org: M. Reiter, B. Lamel

<http://complex.univie.ac.at/events/detail-of-event/news/defensio-ultradifferentiable-cr-manifolds/>

Dienstag, 17. Oktober 2017 14:00 bis 15:00, Fakultät für Physik, Erwin Schrödinger-Hörsaal, Boltzmannng. 5, 5. St., 1090 Wien

Seminar für Mathematische Physik: Shailes Lal (Paris, LPTHE): "Quantum Effects in Higher Spin Holography and Tensionless AdS Strings"

Org: S. Fredenhagen, D. Grumiller

https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/Seminareinladung_Mathematik_Lal_17Okt2017-1.pdf

Dienstag, 17. Oktober 2017 15:00 bis 17:00, BZ 9, 9.OG, OMP1

Seminar AG Biomathematik: Massato Yamamichi (Tokyo): "Toward an integration of population genetics and eco-evolutionary dynamics"

Org: J. Hermisson, R. Bürger

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

Dienstag, 17. Oktober 2017 15:00 bis 15:45, Sky Lounge, 12. OG, OMP 1

PDE Afternoon : Marcus Grote (Univ. Basel, Schweiz): "High-Order Explicit Local Time-Stepping Methods For Wave Propagation"

Org: DK, SFB

<http://www.univie.ac.at/sfb65/public/events/details/?type=1&id=7>

Dienstag, 17. Oktober 2017 15:15 bis 17:00, SR 09, 2. OG, OMP 1

Research Seminar Geometry and Analysis on Groups: Matthew Cordes (Technion): "Convex cocompactness in finitely generated groups"

Org: G. Arzhantseva, Ch. Cashen

<http://www.mat.univie.ac.at/~gagt/abstracts/171017.html>

Dienstag, 17. Oktober 2017 16:00 bis 16:30, Sky Lounge, 12. OG, OMP 1

PDE Afternoon: Tobias Wöhrer (TU Wien): "Sharp estimates in defective evolution equations: from ODEs to kinetic BGK equations"

Org: DK, SFB

<http://www.univie.ac.at/sfb65/public/events/details/?type=1&id=8>

Dienstag, 17. Oktober 2017 16:30 bis 17:00, Sky Lounge, 12. OG, OMP 1

PDE Afternoon: Hung Luong (Univ. Wien): "On the (a,b,c,d) Boussinesq systems"

Org: DK, SFB

<http://www.univie.ac.at/sfb65/public/events/details/?type=1&id=34>

Dienstag, 17. Oktober 2017 17:00 bis 18:00, SR 13, 2 OG., OMP 1

Yan Soibelman (Kansas State University): "Riemann-Hilbert correspondence for q-difference equations and Fukaya categories" and Twistor families of Fukaya categories and periodic monopoles"

Org: L. Katzarkov

Mittwoch, 18. Oktober 2017 11:30 bis 13:00, HS 11, 2. OG, OMP 1

NuHAG Seminar: Sebastian Schmutzhard (Dept. of Music Acoustics, Univ. of Music and Perf. Arts Vienna): "Mathematical modelling of woodwind instruments"

Org: KH. Gröchenig

http://www.univie.ac.at/nuhag-php/program/talks_details.php?id=3382

Mittwoch, 18. Oktober 2017 15:00 bis 16:00, SR 6, 1 OG., OMP 1

Yan Soibelman (Kansas State University): "Riemann-Hilbert correspondence for q-difference equations and Fukaya categories" and Twistor families of Fukaya categories and periodic monopoles"

Org: L. Katzarkov

Donnerstag, 19. Oktober 2017 13:15 bis 15:15, SR 10, 2. OG., OMP 1
Sergio Carrillo (U Wien): "Spaces of asymptotically developable functions III"
Org: A. Rainer

Donnerstag, 19. Oktober 2017 14:00 bis 15:00, AG Gravitation, Währingerstr. 17, Raum 218, 2. OG
Literaturseminar: Florian Steininger (U Vienna): "Exoplanets and general relativity"
Org: P. T. Chrusciel
https://mathematik.univie.ac.at/fileadmin/user_upload/f_mathematik/Vortraege/2017_18/SeminareinladungGravi_Steininger_19Oktober2017.pdf

Donnerstag, 19. Oktober 2017 16:00 bis 18:00, KGRC, Währingerstr. 25, 2 OG, Room 101
KGRC Seminar: Monroe Eskew (KGRC): "Global Chang's Conjecture"
Org: KGRC
http://www.logic.univie.ac.at/2017/Talk_10-19_a.html

Freitag, 20. Oktober 2017 13:00 bis 18:00, BZ 9, 9.OG, OMP1
"The Budapest - Wien Dynamics Seminar"
Org: H. Bruin, P. Balint
<http://mat.univie.ac.at/~zweimueller/BudWiSer/Budwiser.html>