

13th International Conference Nonlinear Analysis, Function Spaces and Applications

Prague, Czech Republic, June 1–5, 2026

The 13th spring school on Nonlinear Analysis, Function Spaces, and Applications, which continues the series of twelve schools organized quadrennially from 1978, will take place in Prague from Monday, June 1, to Friday, June 5, 2026. NAFSA 13 is organized by the Faculty of Electrical Engineering, Czech Technical University in Prague together with Institute of Mathematics of the Czech Academy of Sciences.

[Supported by the RSJ Foundation](#)



DATE & VENUE

DATES

June 1–5, 2026 (Mon - Fri)

VENUE

Faculty of Electrical Engineering
Czech Technical University in Prague
Technická 2, Prague 6
Czech Republic

ORGANIZERS

Faculty of Electrical Engineering, Czech Technical University in Prague
Institute of Mathematics of the Czech Academy of Sciences

ORGANIZING COMMITTEE

Amiran Gogatishvili
Zdeněk Mihula (Chair)
Luboš Pick
Hana Turčinová

SOCIAL PROGRAM

WEDNESDAY, June 3, 2026

Sightseeing tour of Prague (walking tour)

16:00 Meeting point at the conference venue

16:00 – 18:00 **Walking tour**

Places of interest: Republic Square, Old Town of Prague, Old Town Square, Charles Bridge, Malostranské Square

Conference dinner

18:00 – 22:00

BRICK'S Restaurant

Cihelná 2b, 118 00 Malá Strana

PROGRAM AT A GLANCE

	09:00 – 09:50	10:00 – 10:50	10:50 – 11:20	11:20 – 12:10	12:10 – 13:40	13:40 – 14:30	14:30 – 15:00	15:00 – 18:00
Mon 1. 6.	Franz Gmeineder	Paolo Salani	CB	Daniel Spector	Lunch, siesta	Polona Durcik	CB	Short talks
Tue 2. 6.	Ryan Gibara	Franz Gmeineder	CB	Anna Balci	Lunch, siesta	Vít Musil	CB	Short talks
Wed 3. 6.	Paolo Salani	Daniel Spector	CB	Vít Musil	Lunch, siesta	Short talks	Social programme	
Thur 4. 6.	Anna Balci	Polona Durcik	CB	Victor Lie	Lunch, siesta	Short talks	CB	Short talks
Fri 5. 6.	Victor Lie	Ryan Gibara	CB					

SCIENTIFIC PROGRAM

MONDAY, JUNE 1, 2026

8:00 Registration

8:50 **Opening ceremony**

9:00 – 9:50 **Differential operator based function spaces**
Franz Gmeineder | University of Konstanz

10:00 – 10:50 **Minkowski combination of functions and its application to PDEs**
Paolo Salani | University of Florence

10:50 – 11:20 *Coffee break*

11:20 – 12:10 **Sobolev Inequalities and the Geometry of L^1**
Daniel Spector | National Taiwan Normal University

12:10 – 13:40 *Lunch break*

13:40 – 14:30 **Singular Brascamp-Lieb estimates and quantitative convergence of ergodic averages**
Polona Durcik | Chapman University

14:30 – 15:00 *Coffee break*

15:00 – 15:15 **Rough averages of triangular Hilbert transforms**
Lenka Slavíková | Charles University

15:15 – 15:30 **Properties of certain functional generated by two rearrangement-invariant spaces**
David Kubiček | Charles University

15:30 – 15:45 **A new class of function spaces generalizing the Arias-de-Reyna space**
Jan Moldavčuk | Charles University

15:45 – 16:00 **Optimal stability of Dirichlet problems for the regional fractional p-Laplacian**
Guy Foghem | B-TU Cottbus

- 16:00 – 16:15** **The Logarithmic Laplacian and Nonlocal Stochastic Completeness on Complete Riemannian Manifolds**
Rui Chen | Brandenburg University of Technology Cottbus-Senftenberg
- 16:15 – 16:30** **Boundedness of anisotropic operators on vanishing Morrey type spaces**
Farah Alissa Binti Mislal | University of Salerno
- 16:30 – 16:45** **Sawyer Type Duality in Lebesgue and Orlicz Spaces**
Pankaj Jain | South Asian University
- 16:45 – 17:00** **On Wavelets with Extended Gevrey Regularity**
Filip Tomic | University of Novi Sad
- 17:00 – 17:15** **Boundedness of the segment multiplier on rearrangement-invariant spaces**
Miguel Barea Fernández | Universidad Complutense de Madrid
- 17:15 – 17:30** **The extrapolation theorems for weighted generalized Morrey spaces**
Ayşenur Aydoğdu | Ankara University
- 17:30 – 17:45** **Multipoint Characterization of Higher-Order Sobolev Spaces**
Kacper Kurowski | Warsaw University of Technology

TUESDAY, JUNE 2, 2026

- 9:00 – 9:50** **Maximal Functions and Mean Oscillation**
Ryan Gibara | Cape Breton University
- 10:00 – 10:50** **Differential operator based function spaces**
Franz Gmeineder | University of Konstanz
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- 10:50 – 11:20* *Coffee break*
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- 11:20 – 12:10** **Gradient Estimates and Numerical Analysis of Nonlinear Problems with Differential Forms on Riemannian Manifolds**
Anna Balci | Bremerhaven University of Applied Sciences
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- 12:10 – 13:40* *Lunch break*
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- 13:40 – 14:30** **A Unified Approach to Optimality in Orlicz Spaces**

- 14:30 – 15:00 *Coffee break*
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- 15:00 – 15:15 **On the extrapolation of bilinear compact operators in the variable exponent setting**
Stefanos Lappas | University of Bonn
- 15:15 – 15:30 **Mean ergodicity for composition operators on rearrangement-invariant spaces**
Dalimil Peša | University of Pardubice
- 15:30 – 15:45 **Quantitative non-compactness properties of the Fourier transform**
Ladislav Drážný | Charles University
- 15:45 – 16:00 **Interior a priori estimate for higher order elliptic systems in Orlicz spaces**
Pia Salerno | University of Salerno
- 16:00 – 16:15 **Optimal Embeddings of Campanato and Morrey Spaces**
Zuzanna Stępień | Warsaw University of Technology
- 16:15 – 16:30 **Regularity of maximal functions and a Vitali covering lemma for the boundary**
Julian Weigt | The Abdus Salam International Centre for Theoretical Physics
- 16:30 – 16:45 **Pointwise multipliers of function spaces related to Rosenthal's inequality**
Jakub Tomaszewski | Poznań University of Technology
- 16:45 – 17:00 **The number of closed ideals in the algebra of bounded operators on rearrangement invariant function spaces**
Tomasz Kiwerski | Poznań University of Technology
- 17:00 – 17:15 **A Pointwise Inequality for Rough Singular Integral Operators and Applications**
Liviu Gabriel Marcoci | Technical University of Civil Engineering
- 17:15 – 17:30 **Pointwise Estimates for Rough Singular Operators on Ahlfors Regular Metric Measure Spaces**
Anca Nicoleta Marcoci | Technical University of Civil Engineering

17:30 – 17:45 **On Sharp Constants in Equivalent Norms for Classical Banach Spaces**
Achraf Ben Said | Complutense University of Madrid

WEDNESDAY, JUNE 3, 2026

9:00 – 9:50 **Minkowski combination of functions and its application to PDEs**
Paolo Salani | University of Florence

10:00 – 10:50 **Sobolev Inequalities and the Geometry of L^1**
Daniel Spector | National Taiwan Normal University

11:50 – 11:20 *Coffee break*

11:20 – 12:10 **Understanding and Using Modern AI Tools in Mathematical Research**
Vít Musil | Masaryk University

12:10 – 13:40 *Lunch break*

13:40 – 13:55 **Existence of constrained generalized minimizers for the Dirichlet problem on BV**
Lukas Fußangel | University Konstanz

13:55 – 14:10 **Degrees of non-compactness for some operators in Analysis (mainly Fourier Transform)**
Jan Lang | The Ohio State University

14:10 – 14:25 **Relationship between limiting K-spaces and J-spaces in the real interpolation**
Manvi Grover | South Asian University

16:00 – 18:00 **Sightseeing tour of Prague – walking tour**
Meeting point: Conference venue

18:00 **Conference dinner**

THURSDAY, JUNE 4, 2026

9:00 – 9:50 **Gradient Estimates and Numerical Analysis of Nonlinear Problems with Differential Forms on Riemannian Manifolds**

10:00 – 10:50 **Singular Brascamp-Lieb estimates and quantitative convergence of ergodic averages**
Polona Durcik | Chapman University

10:50 – 11:20 *Coffee break*

11:20 – 12:10 **The LGC method: a study guide on some recent advancements in Fourier analysis**
Victor Lie | Purdue University

12:10 – 13:40 *Lunch break*

13:40 – 13:55 **Noncommutative level functions**
Alejandro Santacruz Hidalgo | Poznan University of Technology

13:55 – 14:10 **Mikusinski's operational calculus and its application to fractional PDEs**
Arran Fernandez | Eastern Mediterranean University

14:10 – 14:25 **Looking for a continuous version of Bennett–Carl theorem**
Karol Lesnik | Adam Mickiewicz University in Poznan

14:30 – 15:00 *Coffee break*

15:00 – 15:15 **Self-improving property for certain degenerate functionals with generalized Orlicz growth**
Vertti Hietanen | University of Helsinki

15:15 – 15:30 **Relations between sequence spaces**
Hanuš Kameník | Charles University

15:30 – 15:45 **Fractional-Order Systems with Response Depending on Infinite Time Interval of History**
Jacek Gulowski | University of Gdańsk

15:45 – 16:00 **On the Density of a Sinusoidal Signal Combined with Gaussian Noise**
Dragana Jankov Maširević | Josip Juraj Strossmayer University of Osijek

16:00 – 16:15 **Weyl-type operators on weighted Bergman spaces: Berezin range and Berezin number**
Anirban Sen | Silesian University in Opava

- 16:15 – 16:30** **Abstract Kadets–Klee properties in infinite direct sums**
Paweł Kolwicz | Poznan University of Technology
- 16:30 – 16:45** **Generalized Potential Operators in Weighted Grand Herz Spaces**
Almat Orazbayev | Nazarbayev University
- 16:45 – 17:00** **On grand Morrey sequence spaces**
Aizhan Tulendinova | Nazarbayev University
- 17:00 – 17:15** **A unified approach to compactness in normed spaces**
Piotr Kasprzak | Adam Mickiewicz University in Poznan
- 17:15 – 17:30** **Spline Characterizations of Function Spaces Measuring Smoothness**
Andrew Haar | Charles University

FRIDAY, JUNE 5, 2026

- 9:00 – 9:50** **The LGC method: a study guide on some recent advancements in Fourier analysis**
Victor Lie | Purdue University
- 10:00 – 10:50** **Maximal Functions and Mean Oscillation**
Ryan Gibara | Cape Breton University

10:50 – 11:20 *Coffee break*

11:20 – 11:30 **Closing ceremony**