
MASTER PROGRAM

for

**EIGHTEENTH INTERNATIONAL CONFERENCE
*APPLICATION OF MATHEMATICS IN TECHNICAL AND NATURAL
SCIENCES*
JUNE 27-JULY 2, 2026**

**All times in the program are GMT+3 (East-European time). Please
synchronize your local time with respect to GMT and join the announced
Zoom sessions on time.**

WEDNESDAY, JULY 1, 2026

FLAMINGO GRAND HALL

Join Zoom Meeting 14:00-19:00

<https://us02web.zoom.us/j/81961663530?pwd=bt8GEKLE8Yi85mFpu3vnt3rEvswbH.1>

Meeting ID: 819 6166 3530

Passcode: 115161

Meeting chat link

<https://us02web.zoom.us/jc/81961663530>

Hosted by Michail Todorov

12:30-14:00 Lunch Break

14:00-15:00 PLENARY TALK: Zhijun Qiao
Title: *Peakon Solutions for the Camassa-Holm Type Equations with Quadratic Nonlinearities*

Special Session *PDEs and Their Applications*

15:00-15:30 Speaker: Ran Sun
Title: *Subharmonic Melnikov Analysis of Multi-stable Systems with Bilateral Collisions*

15:30-16:00 Speaker: Nuri Ma
Title: *Low-frequency Vibration and Noise Mitigation in Engineering Applications*

16:00-16:30 Break

16:30-17:00 Speaker: Liyi Ying
Title: *Convex Probability-Field Optimization with Edge-Adaptive Variational Priors for Sparse Segmentation on Discrete Lattices*

17:00-17:30 Speaker: Robert Creps
Title: *Image Analysis and Reconstruction of a Moving Target*

Session APPLIED ANALYSIS

17:30-18:00 Speaker: Stoyan Dimitrov
Title: *On $\sigma\psi\phi$ -cubic κ -tuples and Their Generalizations*

Session NUMERICAL METHODS AND SCIENTIFIC
COMPUTING

18:00-18:30 Slavi Georgiev
Title: *Statistical Modeling of Energy Yield from a Manually Adjusted Photovoltaic System: A Case Study from Shkorpilovtsi, Bulgaria*

18:30-19:00

Cvetelina Stefanova

Title: *Complexity Measures as Predictors of Machine Learning Performance*