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# MASTER PROGRAM

for

**SEVENTEENTH INTERNATIONAL CONFERENCE  
*APPLICATION OF MATHEMATICS IN TECHNICAL AND NATURAL  
SCIENCES*  
JUNE 24-29, 2025**

**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.**

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**SUNDAY JUNE 29, 2025**

## **FLAMINGO GRAND HALL**

Join Zoom Meeting **09:00-12:00**

<https://us02web.zoom.us/j/81874558275?pwd=Eljw0AQZVKXo77I1vig2KFNrm3VbR.1>

Meeting ID: 818 7455 8275

Passcode: 200873

Hosted by Michail Todorov

Session MATHEMATICAL MODELING IN ECONOMY  
AND FINANCE

09:00-09:30

Speaker: Slavi Georgiev

Title: *Stock Prices Prediction Using Hybrid Convolutional  
Neural Network/Long Short-Term Memory Network Model*

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09:30-10:00 BREAK

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10:00-12:00	Special Session NUMERICAL METHODS
10:00-10:30	Speaker: Georgi Iliev Title: <i>Selection and Verification of an Accurate Mathematical Model of a Proportional Control Valves</i>
10:30-11:00	Speaker: Georgi Iliev Title: <i>Mathematical Models of the Static Flow Response of an Electropneumatic Proportional Control Valves</i>
	Session CONTINUUM MECHANICS
11:00-11:30	Speaker: Ganna Shyshkanova Title: <i>Non-stationary Wave Dynamics in Compound Structures: Mathematical Modeling and Analysis</i>
11:30-11:45	RECAPITULATION AND OFFICIAL CLOSING SESSION OF THE CONFERENCE
11:45-12:00	<i>Virtual Trip for the on-line participants</i> Guided by Tzvetan Ostromsky
11:30-12:00	Good Bye Party for the off-line participants

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