



22th International Conference named after A. F. Terpugov

**INFORMATION TECHNOLOGIES AND MATHEMATICAL MODELLING**

December 4-9, 2023

# CERTIFICATE OF THE PARTICIPANT

confirms offline participation in the International Conference ITMM'23

**BOTOV IGOR**

NNRC Huawei

with a report on the topic

**EXPERIMENTS-BASED RESEARCH OF CO-LOCATED WORKLOADS  
PERFORMANCE DEGRADATION DUE TO CONTENTION FOR THE  
SHARED RESOURCE IN "BLACK BOX" SCENARIO CONDITIONS**

Chairs of the Organizing Committee

Ekaterina Fedorova

Ival Lapatin

Two handwritten signatures in blue ink. The first signature is on the left, and the second is on the right, partially overlapping the first.