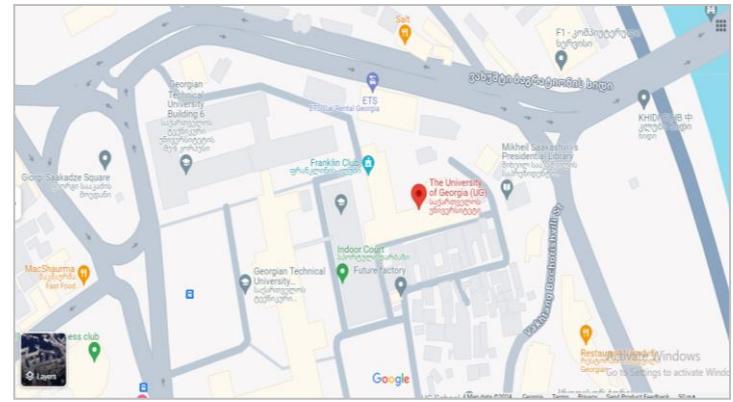


CSIT CONFERENCE

Workshop on Data Analytics and Mathematical Modeling

The University of Georgia, address: Tbilisi, 0171, Georgia, 77a, Kostava ave., IV Building, 5-th floor, Room 519



Wednesday, June 26, 2024

09⁰⁰–16⁰⁰ Registration

10⁰⁰–11⁰⁰ Opening and Plenary Session

Moderators: Hrachya Astsatryan, Konstantine Topuria

10⁰⁰–10²⁰ Welcome Messages

10²⁰–11⁰⁰ Plenary Session

11⁰⁰–11⁴⁰ Coffee Break

11⁴⁰–14⁰⁰ Session 1

Moderator: Vladimir Sahakyan

11⁴⁰ Levon Aslanyan, Hasmik Sahakyan

“Graph theoretical resolution of a state-agent-environment model”

12⁰⁰ Tigran Petrosyan, Petros Petrosyan

“Vertex-distinguishing edge coloring of Lucas cubes”

12²⁰ Tatiana Kosovskaya, Zhou Juan

“Algorithm for extraction common properties of objects described in the predicate calculus language with several predicate symbols”

12⁴⁰ Tatiana Kosovskaya

“Fuzzy Neural Networks that Change their Configuration”

13⁰⁰ Nikoloz Katsitadze, Zurab Chachava

“Optimizing the Mid-Size Microservice Architecture Ecosystem”

13²⁰ Hasmik Sahakyan, Levon Aslanyan

“Input Data Generation for Solving Discrete Tomography Problems with Machine Learning”

13⁴⁰ Konstantin Bulatov

“Indirect error difference approximation for selecting the best anytime algorithm for tasks with unrecognizable quality”

14⁰⁰–15⁰⁰ Free Time / Lunch

15⁰⁰–17²⁰ Session 2

Moderator: Tinatin Davitashvili

15⁰⁰ Sergo Tsiramua, Hamlet Meladze, Tinatin Davitashvili, Aleksandre Benashvili, Lazare Kvartia, Irakli Basheleishvili
“Combinatorial Analysis of the Reliability of Multi-core Processors”

15²⁰ Revaz Kakubava, Nani Salia

“Analysis of Time Measures for the M/G/1 System in a Random Environment”

15⁴⁰ Vladimir Sahakyan, Artur Vardanyan

“The Steady-State Probabilities for a Queuing System with Multiprocessor Servicing Tasks”

- 16⁰⁰ Ketevan Kutkhashvili, Neli Kilasonia
“Scheduling theory problem with a unfixed start time”
- 16²⁰ Merab Pkhovelishvili, Zaza Tsiramua, Natela Archvadze, Mariam Pkhovelishvili
“Overview of Sufficient Forecasting Models”
- 16⁴⁰ Rita Abrahamyan, Hayk Grigoryan, Artur Gevorgyan, Hasmik Panyan, Hrachya Astsatryan
“Evaluating Satellite-Based Precipitation Estimates: A Case Study in Armenia Across Temporal Scales, Altitudes, and Terrain Complexities”
- 17⁰⁰ Agit Atashyan, Artyom Lazyan, Davit Hayrapetyan, Hrachya Astsatryan, Vahagn Poghosyan, Suren Poghosyan
“Mission Preparation for Self-Organizing UAV Swarms on Multi-User Platform”

18⁰⁰ - 22⁰⁰ Social Program & Welcome Reception

Meeting point: UG School parking territory

Assembly time 17:30

Restaurant: Funicular (Mtatsminda plateau, 0114 Tbilisi, 9 Kakutsa Cholokashvili Street, Tbilisi 0114)

Thursday, June 27, 2024

10⁰⁰–11³⁰ Session 3

Moderator: Levon Aslanyan

- 10⁰⁰ Nikoloz Katsiadze, Adeyinka Olanrewaju Ajagbe
“Privacy-Preservation and Data-Sharing Security Issues in Banking Applications”
- 10²⁰ Mariam Haroutunian, Arsen Margaryan, Karen Mastoyan
“Secure Online Voting Scheme Using Steganography”
- 10⁴⁰ Romik Sargsyan, Roman Sahakyan, Emil Gazazyan, Sevak Sargsyan, Hrachya Astsatryan
“Neural Networks vs. Traditional Techniques: Differential Equation Approaches in Quantum Gate Analysis”
- 11⁰⁰ Kartlos Kachiashvili, Joseph Kachiashvili, Vakhtang Kvaratskhelia
“Artificial intelligence methods for testing human psychological state”
- 11²⁰ Givi Qiria , Sulkhan Sulkhanishvili , Nikoloz Katsiadze
“Development of examination software for the Faculty of Medicine”

11⁴⁰–12⁰⁰ Coffee Break

12⁰⁰–13⁴⁰ Session 4

Moderator: Sergo Tsiramua

- 12⁰⁰ George Giorgobiani, Vakhtang Kvaratskhelia, Vazha Tarieladze
“On Sub-Gaussianity in Banach Spaces”
- 12²⁰ Mikhail Doryshin, Elena Zamyatina
“Robots interaction algorithms: the results of simulation experiments”
- 12⁴⁰ Elisabed Asabashvili
“Comparative Analysis of Ruby Language Libraries in the Field of Data Science”
- 13⁰⁰ Giorgi Baghaturia, Marine Menteshashvili
“On the Numerical Solution of the Characteristic Problem for one Quasi-Linear Equation”
- 13²⁰ Simon Razmadze
“Scoring the Outcomes of 1-3-3 Multistage Model of Computerized Adaptive Testing”

13³⁰–14⁰⁰ Final Session

14⁰⁰–15⁰⁰ Free Time / Lunch

18⁰⁰–21⁰⁰ – Excursion:

Old Tbilisi, Metekhi, Abanotubani, Leghvrtakhevi gorge

View tour "Walking in Old Tbilisi" on Android/iOS free mobile application Biliki or generate Old Tbilisi tour on web application www.biliki.ai



Friday, June 28, 2024

10:00-12:30 – Work of the program committee
Simultaneous discussions

12:30: closing of the workshop
13:00-14:00 - lunch

15:00-20:00 Excursion:

Mtskheta: Jvari, Svetitskhoveli, Samtavro, Shiomghvime

*View tour "Cultural Trip to Mtskheta" on Android/iOS free mobile application **Biliki** or generate Mtskheta tour on web application www.biliki.ai*

Meeting point: UG School parking territory
Assembly time: 14:30
Restaurant: Marani Hall (156 Agmashenebeli street, Mtskheta)

