

CSIT CONFERENCE
Workshop on High Performance Artificial Intelligence
September 4-5, 2024

Wednesday, September 4, 2024

10³⁰–11⁰⁰ **Registration**

11⁰⁰–12⁰⁰ **Opening and Plenary Session**

Moderator: Yuri Shoukourian

11⁰⁰–11¹⁵ Welcome Messages

11¹⁵–12⁰⁰ Plenary Session

Gyula Katona

“Minimum number of disjoint pairs in a uniform family of subsets”

12⁰⁰–13⁰⁰ **Session 1, Discrete optimization problems**

Moderator: Hrachya Atsatryan

12 ⁰⁰ –12 ²⁰	Hasmik Sahakyan “Study of nearly KK-MBF type functions”
12 ²⁰ –12 ³⁰	Discussion
12 ³⁰ –12 ⁵⁰	Samvel Darbinyan “On Hamiltonian Bypasses in Orgraphs with large semi-degrees”
12 ⁵⁰ –13 ⁰⁰	Discussion

13⁰⁰ – 14⁰⁰ **Free Time / Lunch**

14⁰⁰ – 15⁰⁰ **Session 2, Discrete optimization problems**

Moderator: Hasmik Sahakyan

14 ⁰⁰ –14 ²⁰	Levon Aslanyan “On uniqueness of some extremal hypergraph constructions”
14 ²⁰ –14 ³⁰	Discussion
14 ³⁰ –14 ⁵⁰	Iskandar Karapetyan “On the Caps”
14 ⁵⁰ –15 ⁰⁰	Discussion

Thursday, September 5, 2024

11:00-12:00 – **Session 3, “Extremal Combinatorics, Theory”**

Moderator: Levon Aslanyan

1100-1120	Hrachya Atsatryan “Innovative Research and Advanced Computing: An Overview of the Center for Scientific Computing”
11 ²⁰ -11 ⁴⁰	Karen Gishyan “Target Class Classification”
Poster and Discussions	Garik Mkrtchyan “3n+1 hypothesis”
	Artyom Gordienko “Threshold Function Reconstruction”

12:00-13:00 **Session 4, “Extremal Combinatorics, Applications”**

Moderator: Vladimir Sahakyan

12 ⁰⁰ –12 ²⁰	Arthur Vardanyan “Advanced Queuing Model of a Multiprocessor Computing System”
12 ²⁰ –12 ⁴⁰	Armen Kazarian “Data Science for Seismic Forecasting”
Poster and Discussions	Vahe Sargsyan “Problems of Sum Free sets”
	Jyoti Kumari “Optimised residual attention U-net-based lung cancer detection”

13:00-13:15 – Closing of the workshop