



Heritage Institute of Technology, Kolkata (HITK)
Presents



International Conference on Applied Algorithms (ICAA 2025)

Organized by

Computer Science and Engineering & Allied Departments

8th - 10th January 2025, Heritage Campus

Day 1 Session 1

8th Jan 2025, Swami Vivekananda Auditorium

Program Schedule

Inaugural Session:

Time	Event	Speaker
10:00 AM	Lighting of the Lamp & Felicitation	
10:10 AM	Welcome Address	Prof.(Dr.) Subhashis Majumder, <i>General Co - Chair, ICAA 2025 & Prof. and HoD, CSE, HITK</i>
10:15 AM	Address	Prof. (Dr.) Basab Chaudhuri, <i>Principal, HITK</i>
10:20 AM	Address	Shri. Prahalad Rai Agarwala, <i>Chairman, Board of Governors, HITK</i>
10:25 AM	Address by Guest of Honour	Prof. (Dr.) Souvik Bhattacharya, FNAE, FNASc, FWAST <i>Former Vice Chancellor, BITS Pilani</i>
10:35 AM	Address by Chief Guest	Prof. (Dr.) Sanjoy Paul, FIEEE <i>Executive Director, Nexus & AI Houston, ION Rice Office of Innovation and Lecturer & Professor, CSE Dept., Rice University, Houston, Texas, USA</i>
10:45 AM	Vote of Thanks	Prof. (Dr.) Subhajit Datta, <i>Organizing Chair, ICAA 2025</i>
10:50 AM – 11:00 AM	High Tea / Coffee	

Invited Talk 1:

Time	Event	Details
11:00 AM – 12:00 PM	Invited Talk	Speaker: Prof. Sandeep Sen Title of talk: Oblivious Algorithms and Universal Optimality Session Chair: Prof. Subhas C. Nandy

Technical Session 1:

Technical Session - Track A Session Chair - Prof. Susmita Sur Kolay PID : 22 , 93 , 21				
Time	PID: Title	Author Names	Presenter Name	Mode
12:00 PM – 1:00 PM				
12:00 PM – 12:20 PM	22: Sorted Range Selection and Range Minima Queries	Waseem Akram (Indian Institute of Technology, Kanpur); Sanjeev Saxena (Indian Institute of Technology, Kanpur)*	Sanjeev Saxena	Physical
12:20 PM – 12:40 PM	93: Density Extrema of Integer Points in Standard Hexagons	Nilanjana G. Basu (Heritage Institute of Technology)*; Subhashis Majumder (Heritage Institute of Technology, Kolkata); Partha Bhowmick (Indian Institute of Technology, Kharagpur)	Nilanjana G Basu	Physical
12:40 PM – 01:00 PM	21: On the Rique Number of Series-Parallel Graphs and Planar Bipartite Graphs	Sk Ruhul Azgor (Bangladesh University of Engineering and Technology)*; Md. Saidur Rahman (Bangladesh University of Engineering and Technology)	Sk RuhulAzgor	Online
1:00 PM – 2: 00 PM	Lunch Break			

Day 1 Session 28th Jan 2025, Swami Vivekananda Auditorium**Program Schedule****Invited Talk 2:**

Time	Event	Details
02:00 PM – 03:00 PM	Invited Talk	Speaker: Prof. Bhargab B Bhattacharya <i>Title of talk: How to Describe a Contour to Visually Challenged: Perspectives from Computational and Digital Geometry</i> Session Chair: Prof. Partha Bhowmick
03:00 PM – 03:20 PM	Tea/Coffee Break	

Technical Session 2:

03:20 PM –
05:00 PM

Technical Session - Track B
Session Chair - Prof. Rajat K. De
PID : 102, 13, **7, 52**

Time	PID: Title	Author Names	Presenter Name	Mode
03:20 PM – 03:40 PM	102: RExAS: Relation Extraction using Adaptive Self-Attention	Madhusudan Ghosh (Indian Association for the Cultivation of Science)*; Partha Basuchowdhuri (Indian Association for the Cultivation of Science); Sudip Naskar (Jadavpur University)	Madhusudan Ghosh	Physical
03:40 PM – 04:00 PM	13: HITgram: A Platform for Experimenting with n-gram Language Models	Shibaranjani Dasgupta (Heritage Institute of Technology); Chandan Maity (Heritage Institute of Technology, Kolkata); Somdip Mukherjee (Heritage Institute of Technology, Kolkata); Rohan Singh (Heritage Institute of Technology); Diptendu Dutta (Aunwesh Knowledge Technologies Private Limited, Kolkata); Debasish Jana (Heritage Institute of Technology, Kolkata)*	Shibaranjani Dasgupta	Physical
04:00 PM – 04:20 PM	7: Social Evolution of Published Text and The Emergence of Artificial Intelligence Through Large Language Models and The Problem of Toxicity and Bias	Arifa Khan (SRMIST)*; Saravanan P (SRMIST); Venkatesan Suki (CQRL BITS)	Arifa Khan	Online
04:20 PM – 04:40 PM	52: Using Various Machine Learning Algorithms and xLSTM-UNet for Crop Recommendation and Disease Prediction	Agnij Moitra (Amity International School, Saket)*	Agnij Moitra	Online