



RESEARCH CONCLAVE 2024 – GCU Assam

AI's Future: Merging Limits & Inspiring Innovation

28th November 2024

Organized by

Department of Computer Science and Engineering, Girijananda Chowdhury University, Assam

Detailed Schedule of Research Conclave 2024 – GCU, Assam				
8:45 AM – 9:30 AM Lobby Area	Registration of participants			
9:30 AM – 10:00 AM Room No: 512	Inaugural Session			
10:00 AM – 11:00 AM Venue: 512	Keynote Talk (Speaker : Shyamanta M. Hazarika, IIT Guwahati)			
11:00 AM – 11:30 AM	High Tea Break			
11:30 AM – 1:00 PM	Session 1: Paper IDs: 1007, 1014, 1006, 1019, 1018, 1017	Session 2: Paper IDs: 1020, 1015, 1004, 1016, 1008, 1010	Session 3: Paper IDs: 2002, 2001, 2003, 1011, 1021, 1023	Session 4: Paper IDs: 3002, 3007, 3003, 3004, 3009, 1002
1:00 PM – 1:45 PM	Lunch Break			
1:45 PM – 2:30 PM	Session 5: Paper IDs: 1022, 1003, 1001	Session 6: Paper IDs: 3001, 3005, 3006	Session 7: Paper IDs: 4001, 4002, 6001	
2:30 PM – 3:15 PM Venue: 512	Invited Talk (Speaker : Samarjeet Borah, SMIT, Sikkim)			
3:15 PM – 3:25 PM	Tea Break			
3:25 PM – 4:00 PM Venue: 512	Valedictory Session			
4:00 PM – 4:05 PM Venue: 512	Vote of Thanks			

Technical Sessions:

SESSION 1			
Time	Paper ID	Title	Venue
11:30 AM – 1:00 PM	1007RCGCU	Speaker Independent Speech Recognition with Reference to Assamese Digits using Machine Learning Techniques	417
	1014RCGCU	Analysis of Power Side-Channel in IoT Device Security	
	1006RCGCU	Smart Resume Screening using Named-Entity Recognition	
	1019RCGCU	IOT Security in Cryptography: A Overview on Lightweight and Quantum Cryptography	
	1018RCGCU	The Impact of Artificial Intelligence Developments on Mental Health	
	1017RCGCU	State-of-Art on AI Enabled Intelligent Transportation System	
SESSION 2			
Time	Paper ID	Title	Venue
11:30 AM – 1:00 PM	1020RCGCU	Impact of Big Data Analytics on University Examination System (A study)	401
	1015RCGCU	Image Recognition and Classification using CNN in R	
	1004RCGCU	State-of-the-Art Transformer Models for Image Super-Resolution: Techniques, Challenges, and Applications	
	1016RCGCU	Exploring Machine Learning Approaches for Detecting Black Hole Attacks	
	1008RCGCU	Image Segmentation with Transformers: An Overview, Challenges and Future	
	1010RCGCU	Exploring Machine Learning Applications in the Tea Industry: A Comprehensive Review	
SESSION 3			
Time	Paper ID	Title	Venue
11:30 AM – 1:00 PM	2002RCGCU	Exploring fMRI and Machine Learning Techniques in Dyslexia Detection: A Survey	512
	2001RCGCU	BIOBEACON: A Smart Home Health Monitoring System for Continuous Health Monitoring and Early Alert Detection	
	2003RCGCU	Machine Learning for Alzheimer’s Disease Detection: An Overview	
	1011RCGCU	RNA Sequence Data in Healthcare: Machine Learning Review	
	1021RCGCU	Kidney stone detection using Deep learning and Image Processing	
	1023RCGCU	Feature Extraction Techniques for Optimizing Facial Emotion Recognition	

SESSION 4			
Time	Paper ID	Title	Venue
11:30 AM – 1:00 PM	3002RCGCU	Optimizing Diesel Generator Allocation Using Genetic Algorithm	301
	3007RCGCU	Measurement of adulteration of lube oil using the principle of optics	
	3003RCGCU	Design and Sizing of a Solar PV Power System to Fulfill the Energy Needs of the Department of Electrical Engineering, Girijananda Chowdhury University, Guwahati	
	3004RCGCU	Distributed Energy Resources for Sustainable Energy Future in Assam	
	3009RCGCU	Pest Management in Potato Cultivation by Early Detection of Diseases and Using Artificial Intelligence: A Comparative Review	
	1002RCGCU	Electronic Overhead tank Water Level Controller Device	
SESSION 5			
Time	Paper ID	Title	Venue
1:45 PM – 2:30 PM	1022RCGCU	Explainable Artificial Intelligence in Deep Learning-Based Word Sense Disambiguation for Bodo Language	401
	1003RCGCU	Artificial Intelligence: Opportunities & Challenges (with reference to the Education Sector)	
	1001RCGCU	Smart GPS Tracker	
SESSION 6			
Time	Paper ID	Title	Venue
1:45 PM – 2:30 PM	3001RCGCU	Energy Generating Footpaths: A Novel Approach to Urban Renewable Energy through Pedestrian Kinetic Harvesting	301
	3005RCGCU	Optimal Allocation of Generating Sources in Hybrid Generation Networks	
	3006RCGCU	Design And Implementation of a Solar Powered Line Follower with Obstacle Avoidance Robot	
SESSION 7			
Time	Paper ID	Title	Venue
1:45 PM – 2:30 PM	4001RCGCU	Design and Development of a Pulsed Power Driver for Operating a Tube-Shaped Inertial Electrostatic Confinement Fusion Device	417
	4002RCGCU	Low dimensional structures, Quantum Confinement & Quantum Dots	
	6001RCGCU	AI in Education: Challenges in Developing Language Proficiency among Learners	