



National Conference on

Multidisciplinary Approaches in Networks, and Computing (NCMNC-2025)

ORGANIZED BY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING AND DEPARTMENT OF MATHEMATICS DIBRUGARH UNIVERSITY, DIBRUGARH, ASSAM, INDIA $21^{st}~\&~22^{nd}~FEBRUARY, 2025$

PROGRAMME SCHEDULE

Day I (21.02.2025)

Time	Venue		Event/Programme	
09:00 am-09:40 am	DUIET Mini		Registration of Authors/Participants	
	Auditorium		&	
	(Second Floor,		Breakfast	
	M Visvesvaraya			
	Bhawan)			
09:40 am-10:30 am	-DO-	Keynote Address by I	Prof. Swaroop Nandan Bora, IIT Guwahati, India.	
		Topic: Modelling and S	Simulation of Time-dependent Problems in Large Water Bodies	
10:30 am-11:30 am	-DO-		Inauguration Ceremony	
11:30 am-11:40 am	-DO-	Tea Break		
11:40 am-12:30 pm	-DO-	_	ukul Chandra Bora, Dibrugarh University, India.	
		Topic: AI in Education:	Technology Use and Integration and NEP2020	
12:35 pm-01:20 pm Distinguished Speakers Session I: Rapporteurs: R1 and R2	DUIET Mini Auditorium	12:35 pm-01:20 pm	Plenary talk by Dr. Nomi Baruah, Dibrugarh University, India. Topic: POS Tagging and its Importance in Computational Linguistics	
01.30 pm - 2.30 pm	DUIET		Lunch Break	









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02:35 pm-03:20 pm Distinguished Speakers Session II: Rapporteurs: R1 and R2	DUIET Mini Auditorium (Second Floor)		•	· · · · · · · · · · · · · · · · · · ·	epur University, India. Sharing in CRNs: Issues and Challenges		
			Slot	Paper Id	Paper Title		
Day-I 03:20 pm-05:30 pm	DUIET Mini Auditorium (Second Floor)	Technical Session I	03:52 pm- 04:37 pm	Plenary Talk by Prof. Shikhar Kumar Sarma, Gauhati University, India. Topic: Contemporary AI Research: Shaping the Future of Nort East India – Challenges, Opportunities, and Education Pathway.			
			04:38 pm- 04:48 pm		Tea Break		









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		(Track 2) Session Chair: Prof. Diganta	04:50 pm- 04:57 pm	NC19	Optimal Pursuit-Evasion Strategies in the Lion and Man game induced by Penalty functions and Strict Betweenness Relations.	
Day-I	DUIET	Mukherjee ISI Kolkata, India.	04:58 pm – 05:05 pm	NC 58	MABPE: Morphology-Aware Byte Pair Encoding for Assamese Tokenization	
04:50 pm-05:30 pm	Mini Auditorium (Second Floor)	Rapporteurs: R3 and R4	05:22pm-	Concluding Remarks by Session Chair and Vote of That by Organising Secretary		
			05:30 pm			









National Conference on

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		Technical Session II	Slot 02:35 pm –	Paper Id Invited Talk India.	Paper Title k by Prof. Manoj Kumar Deka, Assam Skills University,
			03:20 pm		of AI tools and Techniques in Medical Research.
	Dept. of	Session Chair: Prof. Manoj Kumar Deka (Track 2)	U3.41 DIII-	NC42	Deep Learning-Based Classification of Network Traffic for Enhanced Monitoring and Optimization
Day- I 02:35 pm-04:30 pm	Mathematics Conference Hall (1st	Rapporteurs: R5 and R6	03:29 pm- 03:36 pm	NC60	A class of Player Based Network Solidarity values: Characterizations and Implementation.
	Floor)		03:37 pm– 03:44 pm	NC48	Effects of Imperfect Channel State Information on Receiver Performance over Fading Channels: A Comprehensive Review.
			03:45 pm- 03:52 pm	NC54	Evaluating the Effectiveness of k-NN in Diverse Wireless Sensor Network Applications.
			03:52 pm-	NC32	Optimizing Educational Data Management: A Comparative Analysis of MySQL and PostgreSQL in a Dual-Interface Student Attendance System.
			04:02 pm		
			04:02 pm – 04:10 pm	NC57	Fuzzy Time Series-Based Multivariate Forecasting of the TAIEX Index.
			04:10 pm – 04:30 pm		Concluding Remarks by Session Chair and Vote of Thanks by Organising Secretary (Tea Break)
			07.30 pm-09.00 pm	DUIET	Dinner for authors and speakers.









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Day II (22.02.2025)

Time	Venue		Event/Programme
09:00 am-09:40 am	DUIET		Breakfast
10:00 am-01:30 pm Distinguished Speakers Session III Rapporteurs: R7 and R8	DUIET Mini Auditorium (Second Floor)	10:00 am-10:50 am 10:51 am-11:36 am 11:37 am-12:22 pm 12:22 pm-12:32 pm 12:33 pm-01:18 pm	Keynote Address by Prof. Diganta Mukherjee, ISI Kolkata, India. Topic: Modelling Market Microstructure with High- Frequency Data: A Graphical Perspective. Plenary talk by Prof. K. S. Mallikarjuna Rao, IIT Bombay, India. Topic: Network Games Plenary talk by Prof. Surajit Borkotokey, Dibrugarh University, India. Topic: Who is more important in a network: the players or the network? Tea Break Plenary talk by Prof. G. P. Raja Sekhar, IIT Kharagpur, India. Topic: Computational Modelling of Composite Fluid -Porous Structures and Gravity Wave Interaction with Costal Structures.
01.30 pm - 2.30 pm	DUIET		Lunch Break







National Conference on

Multidisciplinary Approaches in Networks, and Computing (NCMNC-2025)

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			Slot	Paper ID	Paper Title
			02:30 pm –	Invited talk	by Dr. Debasish Dey, Dibrugarh
			03:00 pm	University,	India.
				Topic: Mod	delling an Application of Non-
		Technical Session III:		Newtonian F	Tluid Flows
			03:01 pm –	Invited talk	by Dr. Niranjan Bora, Dibrugarh
			03:25 pm	University,	India.
Day II (22.02.2025)				Topic: Num	erical Solution of Power Flow
Day 11 (22.02.2023)	Dept. of	Session Chair: Prof. Manoj			^c n-Bus System.
	Mathematics	Kumar Deka	03:26 pm-	NC04	Exploring the Impact of Magnetic
	Conference	(Track 3)	03:33 pm		Fields on Blood Flow: Recent
02.20	Hall				Developments and Future
02:30 pm-04:04 pm	(1 st Floor)	D.			Perspectives.
		Rapporteurs:	03:34 pm –	NC12	Thermal Efficiency Improvement
		R9 and R10	03:41 pm		in Shell and Tube Heat
					Exchangers with ZnO Nanofluids.
			03:42 pm-	NC18	Performance Enhancement of
			03:48 pm		Unsteady State Heat Transfer in
					Cylinders Using Zinc Oxide
					Nanofluids with Lumped
					Capacitance Analysis.
			03:49 pm-	NC21	Numerical Simulation Of
			03:56 pm		Waterflooding Technique For
					Enhancing Oil Recovery.









National Conference on

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			03:57 pm- 04:04 pm	NC22	CFD Analysis of The Impact of Wall Porosity on The Wind Flow In Gable Roof Buildings With Openings. Tea Break
		Technical Session III:	04:10 pm		100 210011
Day II (22.02.2025)	Dept. of Mathematics	Session Chair: Prof. Manoj	04:11 pm- 04:18 pm	NC24	Integrated Computational modelling of Interior and External ballistic of a Mortar Shell.
04:11 pm-04:45 pm	Conference Hall (1 st Floor)	Kumar Deka (Track 3) Rapporteurs: R9 and R10	04:19 pm – 04:26 pm	NC36	Python-based Graphical User Interface Development for solving fourth-order Runge Kutta and Euler Equations.
			04:27 pm – 04:34 pm	NC38	Some results on Product Topology for M topological Space.
			04:34 pm- 04:45 pm		Ing Remarks by Session Chair and Thanks by Organising Secretary









National Conference on

Multidisciplinary Approaches in Networks, and Computing (NCMNC-2025)

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		T	T = = = =		
			02:30 pm –	Invited talk	by Dr. Vaskar Deka, Gauhati
			03:25 pm	University,	
				Topic: Kno	owledge Graph-based Question-
				Answering S	ystem with respect to Low Resource
				Language	
		Technical Session IV	03:26 pm-	NC03	Ensembling Inception-Residual
	DUIET		03:33 pm		Deep Convolutional Neural
	Mini	Session Chair: Dr.Vaskar Deka,			Networks for High Accuracy
	Auditorium	Gauhati University, India.			Scene Recognition: An AI-Driven
Day II (22.02.2025)	(Second Floor)				Approach to Industrial and
		(Track 1)			Societal Challenges.
02:30 pm-04:30 pm			03:34 pm –	NC07	Machine Learning Approach with
		Rapporteurs:	03:41 pm		Improved Pothole Detection
		R11 and R12	1		Using YOLOv5.
			03:42 am-	NC11	Optimizing MIMO Performance:
			03:48 pm	1,011	A Machine Learning Approach to
			P		Adaptive Modulation.
			03:57 pm-	NC15	The Evolution of E-Office Systems:
			04:04 pm	1,010	Enhancing Policy Implementation
					and Stakeholder Engagement
					Through AI-Driven Digital
					Platforms.
					i mjorns.









National Conference on

Multidisciplinary Approaches in Networks, and Computing (NCMNC-2025)

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			04:04 pm- 04:14 pm		Tea Break
Day II (22.02.2025) 02:30 pm-04:30 pm	DUIET Mini Auditorium (Second Floor)	Technical Session IV Session Chair: Dr. Vaskar Deka, Gauhati University, India.	04:15 pm- 04:22 pm	NC27	Language-Specific Sentiment Analysis: A CNN-based Approach for Assamese Text.
		(Track 1) Rapporteurs: R11 and R12	04:30 pm		Remarks by Session Chair and Vote of ganising Secretary.









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			Slot	Paper ID	Paper Title
	Dept. of	Technical Session V	02:30 pm – 02:37 pm	NC08	Sentiment Analysis of Twitter Data during the COVID-19 Pandemic Using BERT and RoBERTa Models
Day II (22.02.2025)	Computer Science and Engineering	Session Chair: Dr. Purabi Gogoi, Dibrugarh University (Track 4)	02:38 pm – 02:45 pm	NC26	Factors Affecting Oral Cancer Prognosis in Assam: A Binary Logistic Regression Study.
02:30 pm - 04:30 pm	Class Room 2 (1st Floor)	Rapporteurs: R13 and R14	02:46 pm – 02:53 pm	NC10	Propagation of ion-acoustic solitons in an inhomogeneous unmagnetized plasma.
			02:54 pm – 03:01 pm	NC09	A Comprehensive Review on Computational Approaches to Metal Corrosion
			03:02 pm – 03:09 pm		Spot Registration
			03:10 pm – 03:20 pm		Tea Break
			03:21 pm – 03:28 pm		Spot Registration









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Multidisciplinary Approaches in Networks, and Computing (NCMNC-2025)

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			03:29 pm – 03:36 pm	NC25	Supply chain management in healthcare using Blockchain Technology.
	Dept. of	Technical Session V	03:37 pm – 04:45 pm	NC40	Cross-Linguistic Prosodic Feature Analysis: A Study of Tiwa and English.
Day II (22.02.2025)	Computer Science and Engineering	Session Chair: Dr. Purabi Gogoi, Dibrugarh University (Track 4)	03:46 pm – 03:53 pm		Spot Registration
02:30 pm - 04:30 pm	Class Room 2	Rapporteurs: R13 and R14	02.54		G . D
	(1 st Floor)	K13 ana K14	03:54 pm – 04:01 pm		Spot Registration
			04:02 pm – 04:09 pm		Spot Registration
			04:10 pm- 04:20 pm	_	Remarks by Session Chair and nks by Organising Secretary









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Day II (22.02.2028) Computer Science and Engineering Class Room 3 (1st Floor) Rapporteurs: R15 and R16 Computer Session Chair: Dr. Rizwan Rehman, Dibrugarh University. Rapporteurs: R15 and R16 Computer Session Chair: Dr. Rizwan Rehman, Dibrugarh University. Rapporteurs: R15 and R16 Computer Session Chair: Dr. Rizwan Rehman, Dibrugarh University. Co2:38 pm - NC39 Abnormality Analysis of Senso Data using Machine learning Techniques. Co2:46 pm - NC44 Generating Toxic Text Dataset Bodo Language written Devanagari Script for Deep Neural Network Model. Co2:54 pm - NC45 Word Sense Disambiguation Polysemous Words in Assam Language. Co3:02 pm - O3:09				Slot	Paper ID	Paper Title
Class Room 3 (1st Floor) Rapporteurs: R15 and R16 Class Room 3 (1st Floor) (Track 1) Rapporteurs: R15 and R16 Class Room 3 (1st Floor) Rapporteurs: R15 and R16 Class Room 3 (1st Floor) Rapporteurs: R15 and R16 Class Room 3 (1st Floor) Rapporteurs: R15 and R16 Class Room 3 (1st Floor) Rapporteurs: R15 and R16 Class Room 3 (2:45 pm		Computer Science and	Session Chair: Dr. Rizwan	-	NC28	A Study on Pitch Intensity and MFCC as speech feature extractor with reference to Child Voice of Bodo Language.
R15 and R16 02:53 pm 02:46 pm – O2:53 pm R05 and R16 02:53 pm NC44 Generating Toxic Text Dataset Bodo Language written Devanagari Script for Deep Neural Network Model. 02:54 pm – NC45 03:01 pm NC45 Word Sense Disambiguation Polysemous Words in Assam Language. 03:02 pm – O3:09 pm 03:10 pm – Spot Registration	pm	pm Class Room 3		-	NC39	Abnormality Analysis of Sensor Data using Machine learning
03:01 pm				-	NC44	Devanagari Script for Deep
03:09 pm				-	NC45	Word Sense Disambiguation of Polysemous Words in Assamese Language.
				-		Spot Registration
03:17 pm				03:10 pm – 03:17 pm		Spot Registration









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			03:26 pm –	Tea Break	
			03:36 pm	NICAC	
			03:37 pm –	NC46	Algorithmic Interventions:
Dov. II (22.02.2025)		m	03:44 pm		Detecting and Mitigating Abusive
Day II (22.02.2025)		Technical Session VI			Language against Women in
	Dept. of	Session Chair: Dr. Rizwan			Digital Media.
02:30 pm – 04:55	Computer	Rehman, Dibrugarh University.	03:45 pm –	NC47	Assamese Word Sense
pm	Science and		03:52 pm		Disambiguation using Text
	Engineering	(Track 1)			Clustering.
	Class Room 3		03:53 pm –	NC50	A Comparative Analysis of Deep
	(1 st Floor)	Rapporteurs:	04:00 pm		Learning Models for Underwater
		R15 and R16			Image Segmentation.
			04:01 pm –	NC51	Deep Learning for Protein
			04:08 pm		Design: A CNN based Approach.
			04:09 pm –	NC52	Machine Learning Approach to
			04:16 pm		Parkinson's Disease Detection: A
			1		Comparative Review.
			04:17 pm –	NC55	Use of Machine Learning
			04:24 pm		Approach to Study the Ionospheric
			1		Variations: A Review Study.
			04:25 pm –		Spot Registration
			04:32 pm		1 0
			r		









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			04:33 pm – 04:40 pm		Spot Registration	
			04.41 pm- 04.48 pm		Spot Registration	
			04.49 pm- 04.55 pm	Concluding Remarks by Session Chair and Vote of Thanks by Organising Secretary.		
05:30 pm-06:30 pm	DUIET Mini Auditorium (Second Floor)	Val	Valedictory Session and High Tea			
7:30 pm- 9.00 pm		Dinner for authors and speakers.				



