



**XAVIER INTERNATIONAL
CONFERENCE ON
ARTIFICIAL INTELLIGENCE**

 **XICAI**

2024

FEB 29 - MAR 02, 2024

**SCHOOL OF COMPUTER SCIENCE
AND ENGINEERING**



Xavier International Conference on Artificial Intelligence

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING, XIM UNIVERSITY, BHUBANESWAR

FEB 29 - MAR 2, 2024

PATRON



Fr. Antony R. Uvari, S.J.
Vice Chancellor, XIM University



EMINENT SPEAKERS



Dr. Alok Ranjan
BOSCH



Dr. Asif Ekbal
IIT Patna



Dr. Bhaskar Mondal
NIT Patna



Dr. Björn Schuller
Imperial College, London



Dr. Debasis Giri
MAKAUT, WB



Dr. Malay Bhattacharyya
ISI, Kolkata



Dr. M. Tanveer
IIT Indore



Dr. Nilanjan Dey
Techno Intl.



Dr. Pabitra M. Khilar
NIT Rourkela



Dr. Rakesh C. Balabantaray
IIIT Bhubaneswar



Ranvir Soni
UTNT



Dr. Samarendra Das
ICAR



Dr. Samarjit Kar
NIT DGP



Dr. Santos K. Das
NIT Rourkela



Dr. Sanasam R. Singh
IIT Guwahati



Dr. Sriparna Saha
IIT Patna



Dr. Suchismita Chinara
NIT Rourkela



Dr. Sudarsan Padhy
IMA BBSR



Dr. Sudip K. Naskar
Jadavpur University



Dr. Tapas Nayak
TCS Research



Dr. Yamuna Prasad
IIT Jammu

ADVISORY COMMITTEE

- Prof. Chitta Baral, Professor, School of Computing & AI, Arizona State University, U.S.A.
- Fr. S. Antony Raj, S.J., Registrar, XIM University
- Fr. V. Arokiyadass, S.J., Chief Finance Officer, XIM University
- Prof. Gopal Krishna Nayak, XIM University



GENERAL CHAIRS

- Prof. Ganapati Panda, Ex-Director (IIT Bhubaneswar), Bhubaneswar, India.
- Dr. Rudra Mohan Tripathy, Dean, School of Computer Science and Engineering, XIM University, Bhubaneswar



Dr. Arif Ahmed
+91 9475125342

Dr. Sourav Mandal
+91 9836790999

<https://scse.xim.edu.in/news-events/xicai-2024/>

Program Schedule of XICAI 2024. XIM University. Feb 29-Mar 2

Date	Session	Session Chairs	Venue	Time Duration	Events/ Tasks	Speaker Name	Title of talk/paper
Feb 29: Thursday	Registration		Seminar hall-Corridor/ Discussion Room	9 AM - 10 AM	Registration, KIT, and I-Card Distribution		
	1. A (ML, DL)	Dr. Rudra M. Tripathy, XIM University	Seminar hall-V (1st Half) Basement, IC2	10:00:00 AM-10.15 AM	Brief Introduction about School, University, and Conference	Students/ Faculty	
				10.20 AM-10.50 AM	Speaker Talk	Dr. Sudarsan Padhy, IMA Bhubaneswar	Some Efficient Machine Learning Models for Financial Derivatives Prediction and Portfolio Construction
				11 AM - 11.30 AM	Speaker Talk	Dr. Yamuna Prasad, IIT Jammu	Explainable AI
				11.45 AM-12.45 PM	Paper Presentation (4)	Authors	1. "Online Principal Component Analysis" by Bhargab Chattopadhyay 2. "Impact of Social Media Memes on Product Branding" by Ranojay Sikdar 3. "Real-Time Number Plate Detection: YOLOv3- Based modelling in Roboflow framework" by Hemang Kashikar 4. "Theme Identification in Small Text: A Comparative Analysis of Topic Modeling Techniques" by Siba Prasad Pattnaik
	2. A (NLP)	Dr. Sasaram Ranvir Singh, IIT Gowhati	Seminar hall-V (2nd Half)	2.15 PM- 2.45 PM	Speaker Talk	Dr. Tapas Nayak, TCS Research	Evolution of Relation Extraction in the last decade
				2.50 PM-3.20 PM	Speaker Talk	Dr. Björn Schuller (online), Imperial College of London, UK	A Green Tale of Machine Intelligence and Mother Earth: Computer Audition for Environmental Protection
	1. B (WSN, IOT etc)	Debashis Giri, MAKAUT		10:00:00 AM-10.15 AM	Brief Introduction about School, University, and Conference	Students/ Faculty	
				10.20 AM-10.50 AM	Speaker Talk	Dr. Pabitra Mohan Khilar, NIT Rourkela	Data Imputation for Health care Applications
				11 AM - 11.30 AM	Speaker Talk	Ranvir Soni, UTNT	IOT and Data Driven Decision Making for Environmental and Geotech Hazard Monitoring

			Seminar hall-VI (1st Half) Basement, IC2	11.45 AM-12.45 PM	Paper Presentation (4)	Authors	1. "Mitigating Challenges of IoT Forensics Process : A State-of-art Analysis" by Manish Kumar Meher 2. "Nudity Detection System Using Deep Learning and Indian Sentiments" by Satyam Sahoo 3. "Imbalanced Data Challenges and Their Resolution to Improve Fraud Detection in Credit Card Transactions" by Kondapalli Dheeraj 4. "Visual Data Analysis on Social Media" by Neha Sen
	2. B (Security)	Samarjit Kar, NIT Durgapur	Seminar hall-VI (2nd Half)	2.15 PM- 2.45 PM	Speaker Talk	Dr. Debashis Giri, MAKAUT	A Prediction Model for Smishing Attack Detection using Machine Learning and Text Analysis
				2.50 PM-3.20 PM	Speaker Talk	Dr. Bhaskar Mondal, NIT Patna	Building Cyber Defenses with AI and ML
	Inagural Session		Mini Auditorium (Combined) New Academic Block	3.45 PM- 4 PM	Guest Welcome and Felicitation		
				4 PM-4.10 PM	Welcome to the dignitaries onto the dais and Lighting of Lamp		
				4.10 PM- 4.15 PM	Opening Song		
				4.15 PM- 4.25 PM	Address by General Chair		
				4.25 PM-4.30 PM	Address by the Vice Chancellor		
				4.30 PM - 4.50 PM	Address by the Chief Guest		
				4.50 PM-4.55 PM	Mementos to all dignitaries on dais		
				4.50 PM - 5 PM	End note by the General Chair (Dean SCSE)		
	Registration		Seminar hall-Corridor/ Discussion Room	9 AM - 10 AM	Registration, KIT, and I-Card Distribution		
	3. A (ML and CV)	Dr. Rudra M. Tripathy, XIM University		9.30 AM-10 AM	Speaker Talk	Dr. Rudra Prasad Baksi, Illinois State University (online)	Cryptography in the era of Quantum Computers
				10.10 AM-10.40 AM	Speaker Talk	Dr. Malay Bhattacharyya, ISI Kolkata	Learning from the Microbial Environment

Mar 1: Friday			Seminar hall-V (1st Half) Basement, IC2	10.50 AM-11.20 AM	Speaker Talk	Dr. Nilanjan Dey, Techno International	Navigating the Complexities of AI-empowered Medical Image Processing
				11.40 AM-12.10 PM	Speaker Talk	Dr. M. Tanveer, IIT Indour	
				12.15 PM-12.45 PM	Paper Presentation (3)	Authors	1. "Intelligent Video Analysis for Visually Impaired People" by Ratnabali Pal 2. "Structural Analysis of Human Brain Network in the Progression of Neurocognitive Disorder: From Alzheimer's Disease Perspective" by Sanjeevani Kashyap 3. "Image Retrieval Using Deep Learning - An Application in Fashion Design" by Sk Maidul Islam
	4. A (NLP)	Dr. Bhaskar Mondal, NIT Patna		2.15 PM- 2.45 PM	Speaker Talk	Dr. Sasaram Ranvir Singh, IIT Gawhati	Deep Learning Methods for Detecting Incongruent News
				3 PM-3.30 PM	Speaker Talk	Dr. Sudip Kr. Naskar, Jadavpur University	Knowledge Extraction from Text
			Seminar hall-V (2nd Half)	4 PM-4.30 PM	Paper Presentation (3)	Authors	1. "Word Alignment in Statistical Machine Translation: Issues and Challenges" by Bishwa Ranjan Das 2. "Is Attention always needed? A Case Study on Language Identification from Speech" by Atanu Mandal 3. "SE-Mamba: Integrating Squeeze and Excitation into U-Mamba for Improved Microscopic Image Segmentation" by Pratik Sinha
	3. B (WSN, IOT, Cloud, AI general etc)	Pabitra Mohan Khilar, NIT Rourkela and Dr. Yamuna Prasad, IIT Jammu		10 AM-10.30 AM	Speaker Talk	Dr. Santos Kumar Das, NIT Rourkela	IoT and its Applications
				10.40 AM-11.10 AM	Speaker Talk	Dr. Alok Ranjan, BOSCH	Moving Towards Edge Intelligence
				11.30 AM-12 PM	Speaker Talk	Dr. Suchismita Chinara, NIT Rourkela	Distributed learning and Internet of Things

			Seminar hall-VI (1st Half) Basement, IC2	12 PM-12.45 PM	Paper Presentation (4)		<ol style="list-style-type: none"> "Unveiling Healthcare Insights through Graph-Based Topic Modeling" by Pradipta Kumar Pattanayak "Rumor Detection using Graph Convolutional Network and Different Word Embedding Techniques" by Barsha Pattanaik "Good AI Governance: The Potential Future of Responsible Technology in India" by Adwithiya Pachisia "Attentive Fusion: A Transformer-based Approach to Multimodal Hate Speech Detection" by Atanu Mandal 	
	4. B (AI for General)	Tilak Mukherjee, HIT and Tanmay Maitra, KIIT		Seminar hall-VI (2nd Half)	2.15 PM- 3 PM	Speaker Talk	Dr. Samarjit Kar, NIT Durgapur	Fuzzy-based classification using an alternative measure: Dual measure of fuzzy entropy
					3.10 PM-3.40 PM	Speaker Talk	Dr. Samarendra Das, ICAR Bhubaneswar	AI and ML Application in Animal Disease Diagnostic
					4 PM-5 PM	Paper Presentation (Online)	Authors	<ol style="list-style-type: none"> "Predictive Models for Software Fault Prediction: DT, ET, ETS, NB and MLP Approaches" by Shreemat Kumar Dash "Design of an intelligent scheduling algorithms for cloud computing" by Santosh Kumar Majhi "Enhancing Daily Output Forecasting in Solar Stills through Strategic Deep Neural Networks Hyperparameter Optimization" by Halimi Soufiane "Using machine learning algorithms with TF-IDF to generate legal petitions", by Poulami Basu "Personalized Adaptive Learning Recommendation System" by Tejaswini Gondane, Anushka De & Chinmayee Dharmadhikari
Poster Session	Judge:			3 PM-5 PM	Poster Presentation and Competition	Judge: Faculty Members and Invited Speakers		
Cultural Program			Mini Auditorium (Combined)	5.30 PM-6.30 PM				

Mar 2: Saturday	5. A (NLP and CV)	Sudip Kr. Naskar, Jadavpur University	Seminar hall-V (1st Half) Basement, IC2	10 AM-10.30 AM	Speaker Talk	Dr. Asif Ekbal, IIT Patna	Deep Learning for Natural Language Processing
				10.40 AM-11.10 AM	Speaker Talk	Dr. Sriparna Saha, IIT Patna	Multimodal Information Processing: Some recent NLP applications
				11.30 AM-12.30 PM	Panel Discussions-1	M. Tanveer, Asif Ekbal, Sriparna Saha, Tapas Nayak, Yamuna Prasad, Nilanjan Dey, Rakesh Chandra Balabantaray	Theme: Trends, Challenges and Opportunities of AI research in India
				12.30 PM-12.45 PM	Valedictory Session		
			IC-2 Dinning				
	5. B (WSN, IOT, Cloud etc)	Commodore NK Parhi, IIG Varsity	Seminar hall-VI (1st Half) Basement, IC2	10.30 AM-11 AM	Speaker Talk	Dr. Rakesh Chandra Balabantaray, IIIT Bhubaneswar	
				11.30 AM-12.30 PM	Panel Discussions-2	Debasis Giri, Bhaskar Mondal, Santos Kumar Das, Alok Ranjan, Ranvir Soni, etc	Theme: Recent research trends and opportunities in the field of Security, cloud, IOT
				12.30 PM-12.45 PM	Valedictory Session		