

Intenational Conference on Intelligent Systems and Security
Indian Institute of Engineering Science and Technology , Shibpur
Programme Schedule (Tentitive)

Day 1 (20-12-2024)			
Time (in IST)	Details		Meeting Link for Online Participant
9:00-10:00	Registration		
10:00-11:00	Invited Talk Dr. Indrakshi Ray, <i>Colorado State University, USA</i> Title: Modeling and Reasoning about Cyber-Physical Systems Resiliency Session Chair: Dr. Sanasam Ranbir Singh, IIT Guwahati		meet.google.com/cme-ckjh-pys
11:00-11:15	Tea/Coffee Break		
11:15-12:15	Invited Talk Mr. Kausik Halder, HOD - Education & Emerging Technology, <i>WEBEL, Kolkata, India</i> Session Chair: Dr. Indrajit Roy, Colorado State University, USA		meet.google.com/cme-ckjh-pys
12:15-1:15	Invited Talk Dr. Aninda Bose, <i>Executive Editor, Interdisciplinary Applied Sciences, Computational Intelligence, Energy, Springer Nature, London</i> Title: Publishing Ethics and Author Services Session Chair: Mr. James Finlay,VP Applied Sciences Books, Springer Nature Group, London		meet.google.com/cme-ckjh-pys
1:15-2:00	Lunch		
2:00-3:15	Technical Session I: Information Security Session Chair: Dr. Ruchira Naskar, IIST Shibpur, India		
	Paper ID	Paper Title	Meeting Link for Online Participant
	97	Cyber-attack Detection Model using Boosting-based Feature Selection and Ensemble Learning Technique for IoT Ecosystems	meet.google.com/cme-ckjh-pys
	66	Countering Greyhole Attack in Opportunistic Networks using a Reporting and Patrolling Model	
	136	A Deep Learning Approach to Signature Forgery Detection with Residual Attention Mechanisms	
	76	Design of an Efficient Deep-learning based Augmentation Model for Identification of Inpainting Forgeries	
	148	Enhancing Smart Grid Data security: A Pairing-free based Proxy Re-encryption Approach	
3:15-3:30	Tea/Coffee Break		
3:30-4:30	Innaguration		meet.google.com/cme-ckjh-pys
4:30-6:00	Technical Session II: Intelligent Systems Session Chair: Dr. Arindam Biswas, IIST Shibpur		
	Paper ID	Paper Title	Meeting Link for Online Participant
	63	Handwritten English Alphabet Recognition Using Topological Persistence	meet.google.com/cme-ckjh-pys
	127	A BERT Based Hybrid Recommendation System For Academic Collaboration	
	129	A Deep Learning Framework for Insect Sound Classification Integrating STFT, Log Mel Spectrogram with CNN	
	153	Predicting and Identifying Potato Blight Disease through Deep Learning with Fuzzy Approaches	
	61	Detection Segmentation and Noise Removal Process of Cancerous Image Cell of Liver Through Modified Marker-Controlled Watershed Approach	
	95	Smart Assessments: Leveraging Generative AI and Prompt Engineering for Sustainable Education	
	146	Recurrent Dilated U-Net Architecture for Medical Image Segmentation	

Day 2 (21-12-2024)		
Time (in IST)	Details	Meeting Link for Online Participant
9:00-10:00	Registration	
10:00-11:00	<p>Invited Talk</p> <p>Dr. Dipankar Dasgupta, Fellow NAI, IEEE & Distinguished Speaker Director, Center for Information Assurance William Hill Professor in Computer Science, The University of Memphis</p> <p>Title: Pitfalls of Generic Large Language Models (GLLMs) from reliability and security perspectives</p> <p>Session Chair: Dr. Saibal Kumar Pal, Scientist 'G' and Head Cryptology Division, DRDO, Scientific Research Group</p>	meet.google.com/cme-ckjh-pys
11:00-11:15	Tea/Coffee Break	
11:15-12:15	<p>Invited Talk</p> <p>Dr. Saibal Kumar Pal, <i>Scientist 'G' and Head Cryptology Division, DRDO, Scientific Research Group</i></p> <p>Title: Secure Communication for Space Applications</p> <p>Session Chair: Dr. B.C.Dhara, Jadavpur University, India</p>	meet.google.com/cme-ckjh-pys
12:15-1:30	<p>Technical Session III: Information Security</p> <p>Session Chair: Dr. Shyamalendu Kandar, IEST Shibpur, India</p>	
	Paper ID	Meeting Link for Online Participant
	113	Region-based Medical Image Encryption using 4D Hyperchaotic System
	117	A Novel (2,3) Secret Sharing Scheme using Fundamental Theorem of Arithmetic and Strictly Binary Tree
	140	Reversible Data Hiding for Image Authentication and Tamper Detection Exploiting LBP and Interpolation
	139	LibMultiSig – a Multisignature Transaction Library for Bitcoin
	100	An Efficient Detection System of Harmful Gases in Atmosphere Using Cloud Based IoT
1:30-2:15	Lunch	
2:15-3:15	<p>Invited Talk</p> <p>Dr. Sanasam Ranbir Singh, <i>Indian Institute of Technology, Guwahati, India</i></p> <p>Title: Sentiment Analysis on Social Media Data</p> <p>Session Chair: Dr. Santi P. Maity, IEST Shibpur</p>	meet.google.com/cme-ckjh-pys
3:15-3:30	Tea/Coffee Break	
3:30-5:00	<p>Technical Session IV: Intelligent Systems</p> <p>Session Chair: Dr. Nirnay Ghosh, IEST Shibpur, India</p>	
	Paper ID	Meeting Link for Online Participant
	120	Object Detection on Complex Architectural Floor Plans with Efficient Attention Mechanisms
	147	Respiratory Rate Estimation for Rehabilitative Applications Using Ensemble Stacking Regression Model
	154	Semantic Information Extraction from Natural Language using a Learning and Rule-based Approach
	107	Gender and Family Relations Identification from Srimad-Bhagavatam
	149	Sentence Classification of Tamil Tal-Patra Manuscripts: A Comprehensive Benchmarking with CNN+BLSTM and NLP Techniques
	115	A heuristic with multiple search strategies for the GTSPs in different environments
	96	Automotive Load Balancing with Arduino Integration

Day 3 (22-12-2024)			
Time (in IST)	Details		Meeting Link for Online Participant
10:00-11:00	Invited Talk Dr. Sansanee Auephanwiriyaikul, Chiang Mai University, Chiangmai, Thailand Title: Fuzzy Pattern Recognition in Data Analysis Session Chair: Dr. Debasis Giri, MAKAUT, WB		meet.google.com/cme-ckjh-pys
11:00-11:15	Tea/Coffee Break		
11:15-12:15	Invited Talk Dr. B. K. Das, <i>Distinguished Scientist & Director General - Electronics & Communication Systems (ECS), DRDO</i> Session Chair: Dr. Tamaghna Acharya, IIST Shibpur		meet.google.com/cme-ckjh-pys
12:15-1:15	Invited Talk Dr. Debdeep Mukhopadhyay, <i>Indian Institute of Technology, Kharagpur</i> Title: "Every Contact Leaves a Trace": Side Channel and Micro-architectural Attacks on Modern Cryptosystems Session Chair: Dr. Sekhar Mondal, IIST Shibpur		meet.google.com/cme-ckjh-pys
1:15-2:00	Lunch		
2:00-3:15	Technical Session V: Intelligent Systems Session Chair: Dr. Saiyed Umer, Aliah University		
	Paper ID	Paper Title	Meeting Link for Online Participant
	155	Pain Sentiment Analysis System Utilizing Deep Learning Frameworks on Multimodal Data for an Effective Healthcare System	meet.google.com/cme-ckjh-pys
	150	Multiclass classification of lungs disease based on chest X-ray image using Transfer learning	
	151	Automating Generation of Web GUI from a Design Image	
	141	Optimization Based Heart Disease Prediction Using Gen AI: CTGAN and Deep Learning Approach	
	142	PUBLIC HUMAN ASSAULT PREDICTION USING HUMAN ACTIVITY RECOGNITION WITH ARTIFICIAL INTELLIGENCE	
	111	Efficiency of FL, ANFIS, and Classical DC Motor Controllers	
3:15-4:15	valedictory session		meet.google.com/cme-ckjh-pys
4:15-4:45	HI Tea		