

2nd International Conference on Smart Systems and Wireless Communication (SSWC-2025) Organized by Dept. of Information Technology Venue: JIS College of Engineering, Kalyani, West Bengal, India November 21-22, 2025	
Program Schedule	
November 21, 2025 [Friday]	
09:00 - 10:00	Registration and High Tea
INAUGURAL SESSION: [DR. B.C.ROY AUDITORIUM]	
10:00 -- 10:05	Lighting of Lamp and Saraswati Vandana
10:05 – 10:15	Welcome Address by Prof. (Dr.) Partha Sarkar –Principal, JIS College of Engineering
10:15 – 10:25	Address by Sardar Taranjit Singh , Hon’ble Managing Director, JIS Group
10:25 – 10:35	Address by Mr. Simarpreet Singh , Director, JIS Group
10:35 – 10:45	Address by Prof. Niraj Saxena , Pro-Chancellor, JIS University, Chairman Board of Governors, JISCE, Former Adviser, AICTE
10:45 – 10:55	Address by Prof. Rituparna Chaki , University of Calcutta, General Chair-SSWC 2025
10:55 – 11:05	Address by Prof. Agostino Cortesi , Ca' Foscari University of Venice, Italy, General Chair-SSWC 2025
11:05 – 11:15	Address by Dr. Andrew Fleming , British Deputy High Commissioner, Chief Guest, SSWC2025
11:15 – 11:20	Vote of Thanks
KEYNOTE ADDRESS	
11:30 – 12:00	Keynote Address-I Prof. Agostino Cortesi , Ca' Foscari University of Venice, Italy, General Chair-SSWC 2025
12:00 – 12:30	Keynote Address-II Prof. Rituparna Chaki , University of Calcutta, General Chair-SSWC 2025
12:30 – 13:00	Keynote Address-III Dr. Debabrata Nayak , Director, Cyber Security of India, Price Waterhouse Coopers
13:00 – 13:30	Keynote Address-IV Prof. Nabendu Chaki , Dean of Engineering & Technology, University of Calcutta
13:30 – 14:30	Networking Lunch
TECHNICAL SESSION	
Technical Session-IA: Smart System and Networks (Seminar Room-I) Session Chair: Dr. Parama Bhaumik, Jadavpur University	

Session Coordinator: Ms. Sharmistha Ghosh, Ms. Dipanjana Biswas	
14:30 – 16:00	AGROSENSE: A Real-Time IoT Based Environment Monitoring System For Smart Farming [SSWC:68]
	An Overview of Architecture in Cyber Physical Systems [SSWC:117]
	Adaptive Congestion Control in Smart Grids: A Multi-Objective RL-PSO Method With Renewable Penetration [SSWC:139]
	ThirdEye – A Real-Time Smart System for Driver Drowsiness Detection of and Accident Prevention [SSWC:168]
	IoT-Enabled Rice Leaf Disease Detection Using Mobilenetv2: A Lightweight Deep Learning Approach [SSWC:178]
	Survey On a Portable IoT-Enabled Smart ECG System with Real-Time Deep Learning Diagnostics(Ecgenius) [SSWC:203]
Technical Session-IB: Security Solutions (Seminar Room- II)	
Session Chair: Dr. Rituparna Chaki, University of Calcutta	
Session Coordinator: Ms. Monali Sanyal, Ms. Tanima Saha	
14:30 – 16:00	Intrusion Detection in Higher Educational Institutions using Industrial Internet of Things through Software-Defined Network [SSWC:122]
	Blockchain Application Security Testing (BAST) Framework for Securing Enterprise Grade Blockchain Based Applications [SSWC:136]
	An Editable Blockchain Based Framework for Secure Student Evaluation [SSWC:153]
	Employing Role-Based Adaptation for Insider Threat Detection with Sequential Features and Reinforcement Learning [SSWC:176]
	A 2-Layer Blockchain-Based Trust Enhancement Solution for Crowdfunding [SSWC:190]
	Real-Time ICS Attack Surface Monitoring and IP Firewall Enforcement in Scada HMIs [SSWC:226]
Technical Session-IC: Machine Learning and Applications (Seminar Room - III)	
Session Chair: Dr. Kaushik Roy, West Bengal State University	
Session Coordinator: Dr. Annwesha Banerjee, Ms. Pratiksha Nandi	
14:30 – 16:00	Comparative Analysis of Different Machine Learning Techniques for the Diagnosis of Eye Diseases [SSWC:6]
	Decisions Making into Higher Education Systems Based on Decision Trees Algorithms [SSWC:11]
	Towards The Future of Data Protection and Privacy Enhancement - A Research Review [SSWC:12]
	An Innovative Machine Learning Approach for Cervical Cancer Prediction
	Innovative Machine Learning Approach for Cervical Cancer Prediction [SSWC:53]
	Assessing Post Covid-19 Health Effects Using Hybrid Machine Learning for Predictive Health Analysis [Sswc:100]
14:30 – 16:00	Multi-Modal Audiovisual Deepfake Detection Using CNN, LSTM & XGB [SSWC:116]
Technical Session-ID: Machine Learning and Applications (Seminar Room- I)	
Session Chair: Prof. Paolo Ciancarini, Univ. of Bologna, Italy	

Session Coordinator: Ms. Tanusree Saha, Ms. Tanima Saha	
16:15 – 17:30	Decoding Tachygraphy Sentiments: A Comparative Analysis [SSWC:118]
	ML-Based Price Prediction for Agri-Horticultural Commodities [SSWC:121]
	AI-Based Approach in Marine Life Conservation [SSWC:126]
	AR Based Indoor Navigation Model for College Using Reinforcement Learning & AI Agent [SSWC:144]
	Machine Learning Ensemble Approaches for Blood-Brain Barrier Penetration Prediction for Drug Discovery [SSWC:152]
Technical Session-IE: Machine Learning and Applications (Seminar Room- II)	
Session Chair: Dr. Kaushik Roy, West Bengal State University	
Session Coordinator: Dr. Annwesha Banerjee, Ms. Pratiksha Nandi	
16:15 – 17:30	Hope Speech Detection Using Machine Learning [SSWC:154]
	Integrating Biological Features with Machine Learning Approaches to Predict Driver Mutations in Glioblastoma [SSWC:170]
	Prediction of Novel Target Proteins in the Human-Dengue Protein Interaction Network using Machine Learning Techniques [SSWC:185]
	Survey On Non-Invasive Glucose Monitoring System Using Nir Spectroscopy, IoT, And Machine Learning [SSWC:200]
	Performance Analysis of Supervised Learning Algorithms for Real-Time Weed Detection: A Comparative Study [SSWC:220]
Technical Session-IF: Algorithms (Seminar Room- III)	
Session Chair: Prof. Agostino Cortesi, Ca' Foscari University of Venice, Italy	
Session Coordinator: Ms. Sharmistha Ghosh, Ms. Dipanjana Biswas	
16:15 – 17:30	COHORT Intelligence Optimized FOPID Controller for BLDC Motor with Dc-Dc Boost Converter [SSWC:146]
	Optimization of Demons Registration Using Hippopotamus Optimization Algorithm [SSWC:210]
	A Hybrid Framework for Neurological Severity Assessment Via Keystroke Dynamics, CGAN Synthesis, And Android-Based Data Acquisition [SSWC:212]
	A Novel Approach to Performance Enhancement and State Estimation Analysis of Grid-Integrated Hybrid Renewable Energy System Using Soft Computing Techniques [SSWC:228]
18:30 – 20:30	Dinner
22nd November,2025 [Saturday]	
10:00 – 10:45	Keynote Address-V Prof. Shuvra S. Bhattacharyya , Dept. of Electrical and Computer Engineering and Institute for Advanced Computer Studies, University of Maryland
10:45 – 11:30	Keynote Address-VI Prof. Paolo Ciancarini , Department of Computer Science, Univ. of Bologna, Italy
11:30 – 12:15	Keynote Address-VII Prof. Nabarun Bhattacharyya , Director, School of Information Science & Technology, MAKAUT
12:15 – 13:00	Keynote Address-VIII Prof. Valentina Janev , Institute Mihailo Pupin, University of Belgrade, Serbia

Technical Session-IIA: Image (Seminar Room - I) Session Chair: Dr. Imon Mukherjee, IIIT Kalyani Session Coordinator: Ms. Sharmistha Ghosh, Ms. Tanima Saha	
13:00 – 14:15	Data Augmentation for Image Classification: A Survey [SSWC:104]
	A Hybrid Edge Detection Technique for Enhanced Feature Extraction of Medical Imaging [SSWC:106]
	Captioning Of Images Using Resnet50 and MOBILENET: A Mixed Model Approach [SSWC:145]
	A Pattern Recognition Perspective to analyze Dynamic Handwriting for the Assessment of Parkinson's Diseases [SSWC:149]
	Opportunistic Routing Methodology for Flying Ad-Hoc Networks: An Analytical Perspective [SSWC:215]
Technical Session-IIB: Deep Learning (Seminar Room - II) Session Chair: Prof. Asit Kumar Das, IEST Session Coordinator: Dr. Annwesha Banerjee, Ms. Dipanjana Biswas	
13:00 – 14:15	A Novel Deep Learning Based Indian Sign Language Recognition System Using Convolution Operation Reducing Redundant Features [SSWC:164]
	A Regression Based Study on Optimized Batch Adsorption of Textile Dyes Using Luffa Cylindrica Sponge for Wastewater Remedy[SSWC:175]
	Emotional Ai-Driven Cardiovascular Disease Prediction Using Advanced Deep Learning Methods [SSWC:183]
	Deephar: A Centralized Deep Learning Framework for Human Activity Recognition Using Smartphone Sensor Data [SSWC:197]
14:15 – 15:00	Lunch Break
Technical Session-IIC: Image (Seminar Room - I) Session Chair: Dr. Imon Mukherjee, IIIT Kalyani Session Coordinator: Ms. Sharmistha Ghosh, Ms. Tanima Saha	
15:00 – 16:15	Animal Footprint Detection With 3d Vision [SSWC:155]
	Deepfakes in Synthetic Medical Imaging: Opportunities, Challenges, And Safeguards [SSWC:166]
	Spade-Attention Gan for Retinal Fundus Image Synthesis from Vessel Maps: A Deep Conditional Framework with Perceptual and Structural Constraints [SSWC:171]
	Automated Deblurring of Motion Blurred Images [SSWC:189]
	A Study on Multimodal Brain Tumor Segmentation Using Enhanced 2d U-Net Architecture [SSWC:193]
Technical Session-IID: Deep Learning (Seminar Room - II) Session Chair: Prof. Asit Kumar Das, IEST Session Coordinator: Dr. Annwesha Banerjee, Ms. Dipanjana Biswas	
15:00 – 16:15	Deep Learning with a Human Touch: Detecting Cyberbullying Through Empathy-Informed Models [SSWC:17]
	Lightweight Deep Learning Model for Optic Disc and Vessel Segmentation in Fundus Images [SSWC:138]
	A Hybrid Convolutional Neural Network for Handwritten Bangla Character Recognition [SSWC:158]

	BILSTM Based Deep Learning Model for Efficient Yoga Activity Recognition Using Kinect Sensor [SSWC:162]
16:45 – 17:15	Valedictory Session with Vote of Thanks